DEPARTMENT OF THE

187 8837

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AIR FORCE

JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1981,

SUBMITTED TO CONGRESS JANUARY 1989



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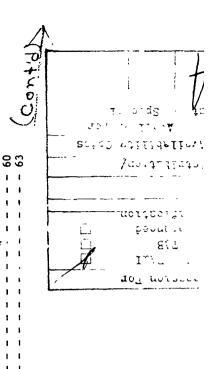
AIRCRAFT PROCUREMENT, AIR FORCE

MISSILE PROCUREMENT, AIR FORCE OTHER PROCUREMENT, AIR FORCE

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DEPARTMENT OF THE AIR FORCE JUSTIFICATION OF ESTIMATES FOR FY 1981 AND FY 1982

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MISSILE PROCUREMENT, AIR FORCE,

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Comparison of FY 1981 Program Requirements and Financing Comparison of FY 1980 Program Requirements and Financing Comparison of FY 1979 Program Requirements and Financing Analysis of Unboligated Balances - - - - - - - - - Modification of Missiles - Detailed Justification - - -Other Support - - - - - - - - - -Spares and Repair Parts - - - - - -Modification of In-Service Missiles -1978 Fiscal Year Program- - 1979 Fiscal Year Program-Summary of Requirements ----1981 Fiscal Year Program --1980 Fiscal Year Program --1977 Fiscal Year Program-Ballistic Missiles- - - -Budget Activity Justification: Object Classification- - - -Other Missiles - - - -Appropriation Language --Program & Financing- --Introductory Statement -Program & Financing:

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	111	1 1 1	980 Fiscal Year Program	1 1	t Activity Justification; ανιζ Munitions & Associated Equipment	1 6	Ben	1 1		Table of Contents	1	men	men
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į .	Appropriation language	Program & Financing 1977 Fiscal Yes 1978 Fiscal Yes 1978 Fiscal Yes		Introductory Statement	Sudget Activity Justification; and			Comparison of FY 1980 Program & Financing	Data Sheets:				•
CACAL THE CONTRIBUTION AND THE CONTRIBUTION OF	¥¥6	F		ı Ş	₽ Bu			88	Da				,
4 .	Logi			,	T								1.1

AIRCRAFT PROCUREMENT, AIR FORCE

other expenses necessary for the foregoing purposes including rents and transportation of things; \$8,555,043,000 to remain available for obligation until September 30, 1983 (5 U.S.C. 3109; 10 U.S.C. 2271-79; 2353, 2386, 2673, 2672, 2672a, 8012, 8062, 9501-02, 9505, 9531-32, 9741-42; 31 U.S.C. 649c, 718; 50 U.S.C. 451, 453, Department of Defense Appropriation Act, 1980, additionas required by section 355, Revised Statutes, as amended; reserve plant and Government and contractor-owned equipment layaway; and handling equipment and training devices, spare parts, and accessories therefor; the U.S. share of the NATO AWACS program; specialtion of structures, and acquisition of land without regard to section 9774 of title 10, United States Code, for the foregoing purtion of structures, and acquisition of land without regard to section 9774 of title 10, United States Code, for the foregoing purtion of structures, ized equipment, expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erecposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to the approval of title For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground al authorizing legislation to be proposed).

Aircraf Procurement, Air Force

identification code 57-3010-0-1-051	. Budge procurenen	rlan (amou actions pr	_		3611gations	
	1979 actual	1980 est	1981 est	1979 actual	1980 est	ا دي
Program by ac						
Direct: 1. Combat sinoraft	000	3,986,250	3,587,600	3, 573, 988	3,804,566	3,925,573
	67, 500	77, 220		63,615	28, 735	85.000
Gether Barroreffe		123,000	200	94,	1,338,515	1,435,803
d. Socialobios of indepole different	200	1,099,670	49,	1,248,527	863,873	1,451,000
hent	765,507	1,302,141	518	891,	1,279,443	1,443,275
10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8,082,181	8, 555, 043	827,95	326,93	382,86
Relmbursable program (total)	491,247	361,335	266,	635, 488	404,068	262, 134
10.00 Totel	8, 5	3,51	, 821, 58	, 463, 43	,73	•
Finencing:						
ò	-75 A76	-49.800	-49.800	-71 134	-49,800	-49,800
11.00 Federal funds	-484,630	-347,935	-216, 538	-88,378	-347,935	-216,538
	141-	7,400	00%	-	2	
For completion of prior year budget pl	:			-2,769,714	-2,213,608	-2,856,724
Available to finance new budget plans personaling from or to prior year budget blans	-121.359	- 13, 600			<u> </u>	: :
d from other	001.08-		•	-80,100		•
25.10 Unobligated balance transferred to other						
accounts	40,100			201,100		
budget plans		:	: : : : : :	2,213,608	2,856,724	3,033,305
Available to finance subsequent year budget blacet	13,600			13,800		
25.00 Unobligated balance lapsing	110,659	13, 800	. (110,659	13,800	. !
	871,10	,976,18	,555,04	871,10	976,	8,555,043
Budio		9	10	893.	10	6,555,043
40.00 Appropriation 41.00 Transferred to other accounts	-22,20	3		-22,200	-2,859	• :
	6,871,107	. 86	55,0	871	7,962,38	8,555,043
50.01 Resproprietion	- 1 - 1 - 1	13,800			; ;	
Relation of obligations to outlays. 71.00 Obligations incurred, not 72.40 Obligated belance, start of year 74.40 Obligated belance, end of year				7,302,753 6,595,188 -6,819,439 55,693	7,333,065	8,376,462 10,380,504 -12,285,966
				100 de 1	000 67.4	6.478.000
60.00 Outlays				0, 130, 130	2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1

		Object Classification (in thousands of dollars)			
Identification code 57-3010-0-1	57-3010-0-1-051		1979 actual 1980 est	1980 est	1981 est.
Direct obligations: 31.0 Equipment				; ; ; ; ; ; ; ;	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total di	Total direct obligations	9	6,827,950 6,827,950	7,326,932	8,382,865
Reimburseble obligations: 31 0 Equipment	ligations:	H M	H H H H H H H H H	10 11 10 10 10 10 10 10 10 10 10 10 10 1	
99.0 Total ob	Total obligations	7.	635,488 7,463,438	404,068 FERRESERS 7,731,000	282,134 ***** *******************************

Aircraft Procurement, Air Force

28 JAN 80

Con Heardord	Program and Financiry (in thousands of dollars)	thousands of	dollers)		1977 Fiscal year program	ear progrem
	Budgat	Budget plan (amounts for prevenent actions programed)	ts for gramed)		Obligations	
	19.9 ac.us! 1980 est	1980 est	1981 ost	1979 actual	1980 est	1981 est.
Program by activities.		1 1 1 1 1 1 1 1 1				
Direct: Combet aircraft Modification of inservice aircraft Aircraft apares and ropult parts Competed Competed	:			88, 223 150, 823 36, 565 173, 099		
7. Aircraft Support equipment and force. Total direct Reimbursable program (total)		1 - 1	1 1	448,710	1	1 1
10.00 Tetal		:	:	486, 955	:	:
Financing: Offsetting collections from: 11.00 Federal funds 13.00 Trust funds	· · · · · · · · ·			-1,302 104,359		
5 1		:::::::::::::::::::::::::::::::::::::::		-780,760		
23 40 Unobligated balance truncferred to other accounts 25.00 Unobligated balance lapsing	'	. 1		110,659	* • 1 • • 1 • • 1 • • 1 • • 1 • • 1 • • 1	. 21
Budget authority	:		:			:

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Aire	Aircraft Procurement, Air Force	ant, Air Forc	•			28 JAN 80
DC# WBLDOLD	Program and Financing (in thousands of dollars)	thousands o	f dollars)		1978 Fisce1	1978 Fiscel year program
dentification code 67-3010-0-1-05	Budge	Budget plen (emounts for procurement actions programed)	nts for ogramod)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	dbligations	
	1979 actual 1980 cst	1980 ost	1981 est.	1979 actual	1980 est	1981 est.
Progres by scalvities: Direct:						
		:	:	241,788	487,888	
A. Alriant Blrorent		:		1,360	6, 190	
O. MC. MICETION OF INBBIVIOR BINGS OF				168,090	85,015	
SATURD LIBOUR BUDGE BUDGE OF THE COLOR OF TH	:::::::::::::::::::::::::::::::::::::::		• • • • • • •	168,377	50,558	
/. Altonatt aubbott agulbsatt and facilitie		•	:::::::::::::::::::::::::::::::::::::::	211,801	59,886	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1 1 1 1	
Definition of the contract of		:		791,416	689, 537	
		:		165, 203	45,882	
10.00						
			: : : : : : : : : : : : : : : : : : : :	956, 619	735, 419	
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	*			6,044		
# TO THE PROPERTY OF THE PROPE				290, 893		
Constant and paragraphs and Dacada (and Dacada)	:	: : : : : : : : : : : : : : : : : : : :		-5		
For completion of prior year budget plans 24.40 Unobligated balance available, and of year?	:		:	-1,888,954	-735,419	:
For completion of prior year budget plans				735,419		
Budget authority		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: : : : : :	1 1 1 1 1 1 1	. 1	- 1

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Aircraft Procurement, Air Force

26 JAN 60

dent f cat on code	Budget	· Q. 60	ota for ogramed)		dbligetions	
	1979 actual	1980 est	1981 est.	1979 actual	1980 est.	1981 est.
Program by activities.		:				
Direct.				6		,00
1. Combet elicipit	3,957,000			3, K43, 8	140,022	007, 200
2. Airlift elroneft	67,500			62,255	3,245	2,00
	10, 200			8,710	1,000	400
	943,700			722,747	150,900	70,053
	1, 193, 500			1,043,565	100,915	40,000
7. Aircraft support equipment and facilities	765, 507			506, 550	150,957	106,000
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 · · · · · · · · · · · · · · · · · · ·		
Total direct	6, 937, 407			5, 567, 824	552, 839	796, 743
Reimbursable program (total)	491,247	:		432,040	47,156	12,021
	7 400 004	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	6 019 A64	500.005	808.784
i'inencing:						
Offwetting collections from:	-75 A76			-75.876		
	-484 630	69.400		-484,630	69,400	
14.00 Non-federal soufices	141-			- 141		
Unobligated belance evellable,						
For completion of prior year budget plans					-1,476,169	-606, 764
Available to finance new budget plans		-13,800	•••••••	*********	13,600	*
	69, 400	-69,400				
122.40 Urobligeted beleene trecefered from other	-80.100			-80.100		
24 40 Upoblicated balance available, and of year					-	
For completion of prior year budget r				1,478,189	808, 764	:
Available to finance subsequent year budget	13,800			13,800		
26.00 Unobligated balance labeing		13,800			13,800	
	11111111		1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1	* * * * * * * * *
Budget suthority	6,871,107	. 1		6,671,107	.1	***
	6, 893, 307			6,893,307	:	
41.00 Transferred to other accounts	-22, 200		. 1	-22,200	* i . i . i . i . i . i . i . i . i . i	
43.00 Appropriation (adjusted)	6,871,107			6,871,107	• • • • • • • • • • • • • • • • • • • •	* • • • • • • • • • • • • • • • • • • •

Force
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			All craft Productament, Air Fords	nt, Air rord	_			28 JAN 80
Floation code		1 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Finencing (in	thousands of	dollers)		1980 Fiscal y	ear program
Program by activities Program content by a program	identification code	-051	Budge	t plan (amour t actions pro	nts for Gramed)		Obligations	
Direct: 1.70, 856 1.70, 850 1.70, 856 1.70,		1	1978 @CLUE	1980 est.	1981 est.	1979 sctus!	1980 est.	1981 est.
Combat sincraft	Program by acti	V14168;						
A chiritt allocate A chiritt allocate A chiritt allocate A chiritt allocate B. Modification of inservice allocate B. Modification of inservice allocate A chiritt allocate B. Modification A chiritt allocate A chiritt allocate A chiritt allocate A chiritt allocate A chiritt and chirit and facilities Total A chiritt amport and repair parts A chiritt amport and repair parts A chiritt amport and repair parts A chiritt amport and repair A chiritt amport and repair parts A chiritt amport and repair A chiritt amport and repair A chiritt amport and repair amport and repair A chiritt amport and repair A chiritte amport and repair A chirite amport and rep		1010701	:::::::::::::::::::::::::::::::::::::::	3,986,250	:		3.170.856	489 42
6. Modert authority: 7. Aircraft sparsa and repair parts 6. Aircraft sparsa and repair parts 7. Aircraft support equipment and facilities 7. Apropriation 7. Sec. Aircraft support equipment and facilities 7. Appropriation 7.	Z. AIFLI			77,220			19,300	40.00
6. Aircraft appears and repair parts 7. Aircraft appears and repair parts 8.082,181 7.069,600 7.020,181 7.069,600 7.060,600 7.060			: : : : : : : : : : : : : : : : : : : :	43,000		: : : : : : : : : : : : : : : : : : : :	10, 800	8,800
Total direct To		THE MODEL BOOK TANDER OF THE	* . *	1,573,900			1, 102, 600	212,000
Reimbursable program (total) Total Total Total Total Total Total Total Total Tinancing: Gfaeting collections from: Financing: Gfaeting collections from: Trust dunds Non-faderal sources Unobligated balance available, start of year: For completion of prior year budget plans Unobligated balance available, and of year: For completion of prior year budget plans Unobligated balance available, send of year: For completion of prior year budget plans Unobligated balance available, send of year: For completion of prior year budget plans Whopligation of prior year budget plans For completion of prior year budget plans For completion of prior year budget plans Appropriation (edjuated) 7,965,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240 7,966,240		of support equipment and facilities		1,302,141			1.068.600	162, 600
Reimburaable program (total) Total Total Total Total Total Total Total Total G,443,516 G,443,516 G,385,556 Finencing: Gfastling collections from: Federal funds Total funds Non-federal source Unobligated balance available, start of year: For completion of prior year budget plans Unobligated balance available, and of year: For completion of prior year budget plans Unobligated balance available, and of year: For completion of prior year budget plans Unobligated balance available, and of year: For completion of prior year budget plans Budget authority Appropriation T,965,240 Transferred to other accounts T,965,240 T,965,240 Transferred to other accounts T,965,240 T,965,240 Transferred to other accounts T,962,391	7		1 1 1 1 1 1 1 1 1 1 1					
Financing: Offstating collections from: Federal funds Federal funds Federal funds Friest funds	e (descoderes	program (total)		8,082,181		: : : : : : : : : : : : : : : : : : : :	8,064,556	1,098,123
Total Financing: Offseting collections from: Frust funds Frust f			* ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	2000	5 1 2 1		311,000	40,69
Finencing: Offsetting collections from Federal funds Frust funds Frust funds Frust funds Non-federal sources Unobligated balance available, start of year: For completion of prior year budget plans Unobligated balance available, and of year: For completion of prior year budget plans For completion of prior year budget plans Budget authority Appropriation T,976,161 Appropriation Transferred to other accounts Appropriation For completion (adjusted) For co				8,443,516			6, 385, 556	1,147,816
Federal funds Trust funds Non-federal sources No	-	11:ections from.						
Non-federal sources Unobligated belance available, start of year: For completion of prior year budget plans Unobligated belance available, start of year: For completion of prior year budget plans For completion of prior year budget plans For completion of prior year budget plans Appropriation Transferred to other accounts Appropriation Appropriation Transferred to other accounts Appropriation Transferred to other accounts		ep.		-49,800	•	********	-49,600	***
Unobligated belance available, start of year: For completion of prior year budget plans Unobligated balance available, and of year: For completion of prior year budget plans For completion of prior year budget plans Budget authority: Appropriation Transferred to other accounts Appropriation (adjusted) Ty965,240 Ty				-417,335			-417, 335	
For completion of prior year budget plans Unobligated balance available, and of year: For completion of prior year budget plans Budget authority: Appropriation Transferred to other accounts Appropriation (adjusted) Type 2, 361 Type 2, 361 Type				- 200			-200	• • • • • • • • • • • • • • • • • • • •
For completion of prior year budget plans Budget authority Sudget authority Appropriation Transferred to other accounts Appropriation Appropriation (adjusted) 7,965,240 -2,859 Appropriation (3,800) 13,800			:	:			:	-2,047,960
Budget authority Vudget authority: Appropriation Transferred to other accounts Appropriation (adjusted) Resppropriation (adjusted) Table 13,603	For complet	Ĺ	- 1	· · · · · · · · · · · · · · · · · · ·	. 1		2,047,960	900, 144
o other accounts 7,965,240 7,965,240 00 (edjusted) 7,965,381 7,965,381 00 13,802 00 13,802	:			7,976,181			7,976,181	1
Appropriation (adjusted) 7,962,301 7,962,301 73,002,301 13,000	95	o other accounts		7,965,240	1		7,965,240	
	ž	tion (adjusted)		7,962,381			7,962,361	

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ircraft Procurement, Air Force

28 JAN 80

	SO STREET, SPECIAL PROPERTY OF THE PROPERTY OF		(musical)		1981 Fiscal year program	ear progren
	Program and Timercing III closely to the Cameria for another for	Sencing (1) Clockender (2) Constitute for Camounts for Ca	territories (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Obligations	1 1 7 8 1 1 1
identification cods 57-3010 0-1-051	1979 actus 1980 est	1980 est	1981 est.	1979 actual	1980 est.	1981 est.
Program by activities:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			,
	:		3,587,800	:		2,866,950 77,925
4 Charter #1707864	: : :		103,900			1,153,75
5. Modification of inservice aircraft			1,549,000		***********	1,239,200
6. Altonatt spares and repair parts 7. Altonatt support aguipaent and facilities			1,518,543	. 1	. 1 . 1 . 1 . 1 . 1	1,140,17
	1		8, 555, 043			6,488,000
Reimbursable program (total)	. 1	. 1 . 1 . 1 . 1 . 1 . 1	266, 538	. 1 . 1 . 1 . 1 . 1 . 1	· 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1	007 800 0
10.00 Total		:	8,821,581		:	1,000,0
Financing: Offsetting collections from: 1,00 Federal funds 13 00 Trust funds			-49,800 -216,538 -200			-49,800 -216,538 -200
14.00 Non-federal sources 24.40 Unobligated balance available, and of year: For completion of prior year budget plans	- 1	. 1 . 1 . 1 . 1 . 1 . 1 . 1	- 1 / - 1 / - 1 / - 1 / - 1 / - 1 / - 1 / - 1 / - 1 / - 1	61 -1 -1 -1 -1 -1 -1 -1	. 1 . 4 . 1 . 2 . 1 . 1 . 1	2,133,161
Budget suthority			8, 555, 043			6,000

Program Requirement - FY 82 ... \$9,475,023
Program Requirement - FY 81 ... 8,555,043
Program Requirement - FY 81 ... 8,055,043
Program Requirement - FY 80 ... 8,082,181
Program Requirement - FY 79 ... 6,937,407

PART I PURPOSE AND SCOPE

equipment to include aerospace ground equipment and ındustria: facilities. In addıtion, funas are provided for the procurement of flight training simulators. Management of the aircraft program is facilitated by collecting, in a single appropriation, all funds It also provides for investment spares and repair parts including spare engines, replenishment spares, and other support service life, improve reliability/supportability, and enhance operational effectiveness, and for the U.S. share of the NATO AWACS This appropriation provides for procurement of aircraft, for modification of in-service aircraft to improve safety, extend for the prime aircraft weapon eystem and related specialized ground handling and test equipment.

aircraft, airlift aircraft, trainer aircraft, and other aircraft; modification of in-service aircraft; aircraft spares and repair The activities are: In the activity justifications which follow, additional details are provided by budget activity. parts; aircraft support equipment and facilities; and the reimbursable program.

Each of the four aircraft activities consists of the following elements, as applicable, which together constitute the weapon

- Flyaway Cost This element consists of the complete aircraft ready to be flown away from the manufacturer's plant and includes airframe, engines, communications and electronics equipment, photographic equipment, armament, instruments, auxiliary equipment installed in the aircraft, and certain non-recurring costs for tooling and other start-up costs.
- simulators, instrument trainers, and air navigation trainers; and procurement of engineering handbooks, manuals, and other techni-Peculiar Support Equipment, Training Devices, and Technical Data - This element includes equipment requirements which are applicable to a specific weapon system such as specialized equipment for maintenance, repair and test of a weapon system, subsyscal data identified with the specific aircraft being procured. Requirements in these categories are established to provide for acheduled delivery of the support equipment in phase with deliveries of the weapon system. tem, or its components; special training devices applicable to a specific weapon system such as mobile training units, flight

c. Credits from Advance Procurement Prior Year - This element identifies assets applied to a program from advance procurement provided in a prior year for items having a longer lead time than the airframe.

d. Advance Procurement Current Year - This element identifies requirements associated with follow-on aircraft programs which have a longer procurement lead time than the airframe.

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PART II JUSTIFICATION OF FUNDS REQUESTED

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فيووخ

The program to be financed with the appropriation for cascal year 1981 includes \$3,587.8 million to procure additional modern aircraft for the combat forces and \$103.9 million for other sircraft. The fiscal year 1982 program includes \$3,173.0 million for combat aircraft, \$152.6 million for airlift aircraft, \$157.7 million for trainer aircraft, and \$232.4 million for other aircraft.

The fiscal year 1981 estimate also provides \$1,795.8 million for modification and modernization of in-service aircraft necessary for safety-of-flight, extension of service life, and to incorporate operational improvements after an aircraft has entered service. The program is designed to maintain the Air Force aircraft inventory at the most modern configuration level at minimum cost. The fiscal year 1981 estimate compares with programs of \$943.7 million and \$1,573.9 million for fiscal years 1979 and 1980. respectively. The fiscal year 1982 program is \$1,802.0 million.

centrally procured and managed, investment-type spare components and repair parts associated with the procurement of new aircraft, the modification program, peculiar and common aerospace ground equipment programs, and the replenishment spares category, which provides for Air Force operational, maintenance, and overhaul programs. For fiscal year 1981, the request amounts to \$1,549.0 million. The fiscal year 1982 program is \$2,001.2 million. Aircraft spares and repair parts are also financed under this appropriation. The spares and repair parts activity includes

The aircraft support equipment and facilities activity provides for common serospace ground equipment, industrial facilities, war consumables, other charges, and the U.S. share of NATO AWACS. The program requirements for fiscal year 1981 are \$1,518.5 million as compared to \$1,302.1 million in fiscal year 1980. The fiscal year 1982 program is \$1,956.1 million.

The requirement for the reimbursable program for fiscal year 1981 is \$266.5 million. This program provides for those aircraft and related items which must be procured to satisfy customer orders.

SUMMARY OF REQUIREMENTS	; FY 1979 Actual	(In Thousands of Dollars) FY 1980 FY 1981 Estimate Estimate	of Dollars) FY 1981 Estimate
	\$3,957,000	\$3,986,250	\$3,587,800
Combat aircraft	67,500	77,220	1
Airlift aircraft	10,200	43,000	103,900
 	943,700	1,573,900	1,795,800
Modification of in-service aircraft	1,193,500	1,099,670	1,549,060
Aircraft spares and repair parts	765,507	1,302,141	1,518,543
Aircraft support equipment and recreat			
	6.937,407	8,082,181	8,555,043
TOTAL DIRECT PROGRAM	491,247	361,335	266,538
Reimbursable program			
CINRRENT (CIRRENT)	7,428,654	8,443,516	8,821,581
TOTAL PROGRAM REQUIREMENT (10 pe obligated in 10 pe ses: Portion of program to be obligated in	1,408,789	2,047,960	2,133,161
	1,443,574	1,335,444	1,956,580
year program			
TOTAL OBLIGATIONS	7,463,438*	7,731,000	8,645,000

* Does not add due to rounding.

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SUMMARY OF PROGRAM REQUIREMENTS

(In Thousands of Dollars)
FY 1982
Estimate \$3,173,000 152,610 157,738 232,400 1,802,015 2,001,200 1,956,060 \$9,475,023 Aircraft support equipment and facilities ---Aircraft spares and repair parts----Modification of in-service aircraft--TOTAL DIRECT PROGRAM---Trainer aircraft----Airlift aircraft---Combat aircraft---Other aircraft---

(In Thousands of Dollars)

Program Requirement - FY 82 ... \$3,173,000

Program Requirement - FY 81 ... 3,587,800

Program Requirement - FY 80 ... 3,986,250

Program Requirement - FY 79 ... 3,957,000

ACTIVITY: Combat Aircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft, associated flight simulation devices, and other peculiar training and support equipment to continue modernization of U.S. combat forces and improve the efficiency of training programs.

options of response ranging from the use of diversified conventional weapons through, in the case of U.S. forces, a variety of nuenemy forces, and furnish close air support to ground forces. The aircraft can be used to counter a variety of threats and offer Combat aircraft are required to attain and maintain air superiority, interdict enemy supply lines, provide reconnaissance of

The programs also include funds for procurement of flight simulators for the A-10 and The FY 1981 and FY 1982 programs include funds for the procurement of A-10, F-15, F-16 (Air Combat fighter), KC-10 (Advance Tanker/Ca:go), and E-3A (AWACS) Aircraft. The programs also include funds for procurement of flight simulators for the A-10 and

PART II JUSTIFICATION OF FUNDS REQUESTED

The total FY 1981 and FY 1982 fund requirements by FY, for procurement of combat aircraft, related support items, and advance procurement funding in support of the following year's program are: FY 1981 - \$3,567.8 million; and FY 1982 - \$3,173.0 million. Details are as follows:

A-10 (FY 1981 - 60 aircraft, \$478.1 million; FY 1982 - 46 aircraft, \$404.6 million):

The A-10 attack aircraft is specifically designed for the close air support role. It is a single-seat, twin turbofan powered, anti-tank and anti-mechanized vehicle operations in close proximity to friendly ground forces. The firepower, survivability, and long-loiter capability of the A-10 provide an improved close air support capability. The A-10 initial operational capability was fixed wing, subsonic aircraft capable of carrying a versatile ordnance load and is armed with one 10MM rapid fire gun system. A-10 meets the requirement to provide close supporting fire, armed escort, and armed reconnaissance in battle areas involving achieved in Oct 1977, three months ahead of schedule.

P-15A/B/C/D (FY 1981 - 30 aircraft, \$747.5 million; FY 1982 - 30 aircraft, \$845.6 million):

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1980s. It has the maneuverability, armament, and fire control needed to survass the capabilities expected from Soviet aircraft in that period. The F-15 has replaced the F-4 as the primary air superiority aircraft. Enemy fighters projected for the early 1980s the counter air mission. It is characterized by high thrust-to-weight and low wing loading for maximum acceleration and maneuverwill have a decided advantage over the F-42. The basic take-off thrust-to-weight ratio of the F-15 is greater than one-to-one and The main purpose of the F-15 is to provide the Air Force with an aircraft which can defeat Soviet-built fighters of the The P-15 is a twin engine (P&W F100), single crew (B/D is two-crew), fixed swept wing, advanced tactical fighter designed for will permit the F-15 to out-climb, out-accelerate, and out-turn any known or projected threat during this time period.

F-16 (Air Combat Fighter) PY 1981 - 180 aircraft, \$1,819.9 million; FY 1982 - 120 aircraft, \$1,392.7 million):

manpower/logistics burden; and exceptional air combat maneuvering performance, coupled with a potent air-to-grund weapons delivery capability. The F-16 will also enable modernization and standardization of equipment among those allied countries which The F-16 is a new multi-rurpose fighter incorporating advanced technol gy features proven in the Lightweight Fighter (LWF) minimum costs. The design characteristics of the F-16 are such as to permit high sortie rates with rapid turn around; minimum prototype program. The goal is to deploy a fighter which can perform an acceptable spectrum of tactical air warfare tasks at choose to replace their aging tactical fighter forces with F-16s.

KC-10A (Advanced Tanker/Cargo Aircraft) (Fx 1981 - 6 aircraft, \$295.0 million; FY 1982 - 6 aircraft, \$296.0 million)

and their support equipment simultaneously, ready to fight. The Advanced Tanker/Cargo aircraft will provide a significant direct The Advanced Tanker/Cargo is a derivative of the currently available wide-bodied DC-10 aircraft modified as necessary to pro-Advanced Tanker/Cargo is an aircraft of unique versatility, with a capability to provide both long range air refueling and over-size airlift supporc. Combining cargo and fuel off-load capabilities results in a capability to deploy tactical fighter forces wide air refueling capability, and to exploit fully the cargo-carrying potential inherent in the existing airraft design. The contribution to the strategic airlift force.

- 2 mircraft, \$234.1 million): E-3A (AWACS) (FY 1981 - 2 arrcraft, \$247.3 million; FY 1982

with interchangeability for the two missions being easily accommodated by changing the control processor software. The E-3A (AWACS) can operate as a self-contained, survivable force management center, or an adjunct to an established ground control net. Its distinguishing technical feature is the capability for long range detection and tracking of airborne objects operating at high or low altitudes over both land and water for extended periods. strategic defensive operations. The airtorne platform, and modified Boeing 707 aircraft, is common for both types of operation The E-3 (AWACS) provides an airborne surveillance, command, control, and communications system for use in both tactical and

Program Requirement - FY 82 ... \$152,610
Program Requirement - FY 81 ... 0
Program Requirement - FY 80 ... 77,220
Program Requirement - FY 79 ... 67,500

ACTIVITY: Airlift Aircraft

PART I PURPOSE AND SCOPE

This activity provides for the procurement of new aircraft, associated flight simulators, and support items to continue im-provement of the U.S. airlift forces.

PART II JUSTIFICATION OF FUNDS REQUESTED

carrying outsized cargo, such as heavy mechanized Army equipment, over intercontinental distances, as well as being capable of moving the equipment within the theater of operation. This is a major initiative to improve rapid deployment capability. Several designs are being considered and full scale engineering development will begin in FY 1981 on the selected design. The FY 1982 request is for the initiation of C-X procurement. The C-X will be capable of No funds are requested for FY 1981.

(In Thousands of Dollars)

Program Requirement - FY 82 ... \$157,738

Program Requirement - FY 81 ... 0

Program Requirement - FY 80 ... 0

Program Requirement - FY 80 ... 0

ACTIVITY: Trainer Aircraft

Part I Purpose and Scope

procurement of new aircraft, associated flight simulation devices, and support equipment reprovides for the procurement of new alrcraft, associated 11.500 camerical (B-52) aircraft. training. The FY 1982 program is for procurement of the Companion Trainer (B-52) aircraft. quired for flight training. This activity

Part II Justification of Funds Requested

suite. Actual flying time in the B-52 could be reduced by 25% through this approach. Source selection for Full Scale Engineering Development is scheduled for December 1980 and development of two prototypes will begin in January 1981. The quantity of aircraft to be procured in FY 1982 depends on the model selected for production. No funds are requested for FY 1981. The FY 1982 request of \$157.7 million is for procurement of a companion trainer for The companion trainer concept involves the use of a modified business type aircraft to provide training for B-52 crew s. The aircraft will be modified with off-the-shelf bomb/navigation equipment and a closed circuit electronic warfare B-52.

Program Requirement - FY 82 ... \$252,400 Program Requirement - FY 81 ... 103,900 Program Requirement - FY 80 ... 43,000 Program Requirement - FY 79 ... 10,200

ACTIVITY: Other Aircraft

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PART I PURPOSE AND SCOPE

This activity provides for the procurement of TR-1 aircraft in FYs 1981 and 1982,

PART II JUSTIFICATION OF FUNDS REQUESTED

TR-1 (FY 1981 - 4 aircraft, \$103.9 million; FY 1982 - 8 aircraft, \$232.4 million):

The TR-1 is a variant of the highly capable U-2R aircraft currently in the strategic reconnaissance inventory the only U.S. aircraft capable of long loiter, standoff surveillance from altitudes above 60,000 feet with an electronic sensor horizon of over 300 NM. Equipped with the latest electronic sensors being developed in other programs, the TR-1 will provide U.S. and Allied ground and air forces an effective battlefield surveillance system into the 1990s.

\$1,802,015 1,795,800 1,573,900 Requirement - FY 80 Requirement - FY 79 (In Thousands of Requirement - FY - FY Program Program Program

ACTIVITY: Modification of In-Service Aircraft

PART I PURPOSE AND SCOPE

This budget activity provides for modification and modernization of in-service aircraft, training devices and support equipment necessary for safety, extension of service life, and to incorporate operational improvements after an aircraft has entered service. The program is designed to maintain the Air Force aircraft inventory at the most modern configuration level at the service. The program is designed to maintain the Air Force aircraft inventory at the most modern configuration level at the

PART II JUSTIFICATION OF FUNDS REQUESTED

Modifications are necessary to enable the strategic offense, defense, tactical, and support forces to maintain superiority over hostile forces, to extend the active service life of aircraft, and to keep abreast of changing mission requirements. To ensure maximum safety for the aircraft and crews and to enhance capabilities of aircraft in a combat environment, priority modifications are necessary. Modifications are closely examined and priorities established so that only the most essential are accomplished with the funds available.

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The FV 1981 program, to a large extent, consists of follow-on requirements for previously initiated modifications. Particularly significant, is the requirement to provide long range cruise missile carriage for the B-52G and the companion requirement to modernize the offensive avionics system on the B-52G/H aircraft. Funds are also included in FY 1981 to procure hardware to remodernize the offensive avionics system on the B-52G/H aircraft. engine one KC-135 aircraft with new fuel efficient, high by-pass turbo fan engines, in accordance with Congressional direction. Other significant efforts impacting the program total include:

- Increasing the strategic airlift capability.
- Updating the penetration and electronic defense capabilities of various weapon systems to improve survivability in a hostile environment.
 - Upgrading C³ equipment on the National Emergency Airborne Command Post to the advanced configuration. 3
- provision of tactical support jamming capability.
- (5) Improvement in Peacetime Material Readiness through replacement of unreliable hardware with new state of the art equipment, thus increasing maintainability/reliability and decreasing support costs. $20\,$

tractor facilities, concurrent with programmed depot maintenance. Where the installation tasks are less complex or require a re-latively small number of man-hours, they are accomplished in the field by assigned personnel or specialized teams dispatched from with normal maintenance programs to the maximum extent possible. Complex modifications are installed at Air Force depots or con-Aircraft modification kits are procured on a phased basis, lead time away from installation, which is scheduled the depot or provided by contractors.

mmount of \$5.0 million; improved reliability of the defensive fire control system in the amount of \$35.5 million; and \$2.6 million \$12.4 million; Electronic Countermeasure Power Management in the amount of \$16.6 million; update of R-52D navigation system in the B-52 (FY 81 - \$454.8 million; FY 82 - \$384.3 million). The FY 1981 program includes: follow-on modifications for Offensive Avionics modernization, long range Air Launched Cruise Missile carriage, and Observable Difference System, in the amount of \$354.4 for various reliability/maintainability improvements. In addition, the program includes \$2.1 million to initiate a modification million; Tail Warning capability in the amount of \$16.2 million; Electronic Countermeasure Transmitter update in the amount of provide a Fuel Savings Advisory System on the B-52 aircraft.

reliability/maintainability improvements for the B-52D automatic flight control and compass system. The FY 1982 program will continue programs previously started, and initiate new programs to

continue the reliability improvement to F-106 (FY 81 - \$8.1 million; FY 82 - \$39.2 million). FY 1981 provides \$6.0 million to cont X Band Transistor Assembly and \$2.1 million for other safety and reliability improvements.

previous fiscal years and provides funding for initial on of raliability/maintainability upgrade of the radar on the F-106. modifications initiated in

A-7 (FY 81 - \$14.0 million; FY 82 - \$23.9 million). The FY 1981 program includes \$3.0 million for follow-on procurement of chaff and flare dispenser capability and \$4.5 million to continue implementation of various improvements to the TF-41 ungine. In addition, the program includes \$6.5 million to initiate a reliability modification to replace the digital scan converter. The FY 1982 program continues modifications previously started and initiates additional TF-41 reliability improvements, \$4.6

modify operational air-A-10 (FY 81 - \$42.1 million; FY 82 - \$46.8 million). The FY 1981 program includes \$15.3 million to modificate consistent with reliability changes to be incorporated into aircraft on the production line, and \$26.8 tial Navigation System (INS) for operational aircraft as a follow-on to FY 1930. A-10 (FY 81 - \$42.1 million; FY 82 - \$46.8 million).

The FY 1982 program continues the aircraft update effort, \$18.6 million, and the INS procurement, \$28.2 million.

F/RF-4 (FY 81 - \$51.9 million; FY 82 - \$70.2 million). In FY 1981, funds are requested for follow-on costs of previous modifications as follows: \$1.2 million for the Chaff and Flare Dispenser capability; \$9.5 million for the Tactical Electronic Reconnaissance (TEREC) Capability; \$4.7 million to upgrade the radar warning receiver on the F-4E: \$2.5 million for an altitude line

In addition, \$7.7 million is included for initiaimprovement to the APQ-120 radar; \$3.6 million for a wing fold rib replacement; \$3.4 million for a reliability replacement with an improved secure voice capability and \$7.2 million to replace the fire/overheat warning system to improve the safety digital scan converter; \$7.2 million to replace the inertial navigation system and weapons delivery system on the F-4G Wild and \$4.9 million for various structural and reliability improvements. of the aircraft. Weasel: tion of

ethicked and brush system of all for local

The FY 1982 program continues previously initiated modifications and initiates a program to provide for GBU-15 carriage some F-4E aircraft.

of the improved ALR-56 countermeasures capability in the amount of \$6.4 million; \$16.3 million to complete procurement of the pro-F-15 (FY 81 - \$96.8 million; FY 82 - \$58.3 million). The FY 1981 program is comprised of \$62.0 million to modify operational aircraft to standard configuration compatible with changes being incorporated into aircraft on the production line; continuation sersor/airborne video tape recorder capability. \$11.7 million is included to initiate a modification to improve reliability the UHF radio and TACAN and provide a VHF radio and secure voice capability. grammable signal processor for an improved radar capability; and \$.4 million to continue procurement of a cockpit TV

The FY 1982 program consists of continuation of the aircraft update effort and modifications previously initiated. includes funds to initiate an engine diagnostics capability for improved supportability of the F-100 engine. The FY 1981 program of \$40.6 million is to continue the update of operational aircraft to a standard configuration compatible with changes being incorporated into wircraft on the production line. F-16 (FY 81 - \$40.6 million; FY 82 - \$89.7 million).

The FY 1982 program continues the update of operational aircraft and initiates an engine diagnostics capability for improved supportability of the F-100 engine.

in the amount of \$16.7 million; \$1.7 million to continue a secure voice capability; \$6.5 million for correction of various mission F-111 (FY 81 - \$70.1 million; FY 82 - \$93.1 million). The FY 1981 program includes: the final increments of the improved internal countermeasures equipment in the amount of \$13.5 million and the PAVE TACK target acquisition/designation modification imiting and safety of flight engine deficiencies; and \$31.7 million to improve reliability and safety of various airframe items and components.

Continuation of previously initiated modifications is provided for in the FY 1982 program plus the initiation of various reliability and safety modifications on the engine, avionics and arrframe in the amount of \$8.6 million.

EF-111 (FY 81 - \$238.5 million; FY 82 - \$237.4 million). The FY 81 program continues procurement of a modification to incorporate an electronic countermeasure subsystem the ALQ-99, into 42 F-111A aircraft. The EF-111 will provide the capability to accomplish all 'actical jamming support missions, i.e., barrier/standoff, close air support and penetration/escort jamming. performance capabilities will be preserved by installing the ALQ-99 in the weapon bay area and other subsystems will be installed internally. The EF-111A is the replacement for the ED-66 which was phased out at the end of FY 1974 due to age and obsolescence of the jamming equipment.

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The FY 1982 program continues the production rate at the FY 1981 level.

million completes procurement of a safety improvement to redesign and relocate pylon components to reduce fire hazards; \$8.5 mil-Jion to initiale procurement of a replacement of the unreliable weather radar with a highly reliable commercial weather radar; \$2.2 million to initiate procurement of a fuel savings advisory system to allow more efficient use of fuel; and \$3.8 million for C-5A (Fv 81 - \$185.) million; FY 82 - \$197.5 million). The FY 1981 program continues the production phase of the wing replacement modification necessary to achieve an increased 30,000 flying hour service life in the amount of \$166.7 million; \$3.9 various reliability and safety improvements. The FY 1982 program continues the wing replacement modification, and other previously initiated modifications. Initiation of a reliability improvement for the TACAN is also included.

C-141 (FY 81 - \$48.9 million; FY 82 - \$24.3 million). The FY 1981 program provides for the final procurement of the cargo stretch and inflight refueling modification in the amount of \$25.6 million; \$6.6 million to complete procurement of the commercial weather redar; \$7.8 million to continue the digital flight data ecorder; \$1.5 million to continue the replacement of the rudder power control cylinder; \$.3 million for various reliability and safety modifications; and \$7.1 million to initiate procurement of a fuel arvings advisory system to allow more efficient use of fuel.

The FY 1982 program continues modifications initiated in previous fiscal years.

T-38 (FY 81 - \$6.0 million; FY 82 - \$3.0 million). In FY 1981, funds are requested for follow-on costs of previous modifications as follows: \$3.1 million for a safety improvement to the ejection seat; \$2.5 million for a fuselage dorsal longeron beefup; and \$.4 million for other attuctural and reliability improvements.

The FY 1982 program continues modifications initiated in previous fiscal years.

The FY 1981 program initiates a wing reskin modification to extend the T-39 (FY 81 - \$8.0 million; FY 52 - \$1.3 million). The FY 1981 program init service life; \$.6 million initiates various structural and safety improvements.

The FY 1982 program continues modufications initiated in FY 1981.

ex-The FY 1981 program initiates procurement of a wing modification to C-130 (FY 81 - \$20.9 million; FY 82 - \$62.1 million). The FY 1981 program initiates procurement of tend the service life in the amount of \$16.0 million and \$4.9 million for various safety improvements.

The FY 1982 program continues the wing nodification and safety modifications initiated in previous fiscal years and initiates a new modification to conserve fuel by adding afterbody strakes to reduce drag.

AM/FM radio capability for \$.7 million; an increased airborne retargeting capability in the amount of \$3.7 million; a fuel savings The FY 1981 program includes follow-on support for extention of air-C-135 (FY 81 - \$124.8 million; FY 82 - \$94.7 million). The FY 1981 program includes follow-on support for extention of aircraft service life by reskinning the lower wing surface in the amount of \$34.3 million and the final procurement of the doppler replacement program in the amount of \$32.5 million. In addition, the FY 1981 program initiates a modification to provide a VHF advisory system in the amount of \$3.0 million; and various reliability improvements in the amount of \$4.4 million. the nardware to re-engine one KC-135 prototype is also included in FY 1981 in the amount of \$44.5 million.

The FY 1982 program continues funding of modifications initiated in previous fiscal years and also initiates improvements the Mınimum Esrential Emergency Communication Network (MEECN) in the EC-135's in the amount of \$9.8 million.

The FY 1981 program includes \$7.0 million to update operational aircraft a standard configuration compatible with changes being incorporated into aircraft on the production line. E-3A (FY 81 - \$7.0 million; FY 82 - \$10.0 million). 2

The FY 1982 program continues the update of operational aircraft.

The FY 1981 request is to reconfigure the second of the three Interim E-4A (FY 81 - \$138.5 million; FY 82 - \$156.6 million). The FY 1981 request is to reconfigure the second of the three Inter Airborne Command Post aircraft to the E-4B Advanced Airborne Command Post configuration, \$133.7 million; and to provide secure voice capability and miscellaneous reliability improvements in the amount of \$.9 million. \$3.9 million initiates a program provide additional automatic data processing capability, The FY 1982 program provides for reconfiguration of the final E-4A Interim Airborne Command Post sircraft to the E-4B Advanced Airborne Command Post configuration and other miscellaneous improvements. HH-53 (FY 81 - \$2.5 million; FY 82 - \$1.9 million). In FY 81, continuation of a safety modification for crash worthy auxiliary fuel tanks requires \$1 million. Companion safety modification for crash worthy fuel systems requires \$.6 million and various other safety and reliability improvements require \$.9 million.

In FY 82 the crash worthy fuel system and a redesign of the flight mechanic seat require continuing support.

OV-10 (FY 81 - \$2.4 million; FY 82 - 0). A secure voice capability requires \$2.2 million in FY 1981 and a safety modification provide a standby attitude indicator system requires \$.2 million in FY 1981. 2

(CM442A/ALR46(V)) to provide the capability to identify and locate the latest known enemy threats; \$18.6 million to replace HF and VHF AM/FM radios with highly reliable state-of-the-art radios. The balance of \$9.8 million is for various modifications on a Other Aircraft (FY 81 - \$56.5 million; FY 82 - \$43.5 million). In FY 1981, funds are required for follow-on costs of previously initiated modifications as follows: \$18.8 million for a jam resistant secure voice communication to protect vulnerable UHP communications from hostile ECCM; \$4.0 million to provide the AN/ARC-164 UHF radio compatibility with 25Khz frequency separation when operated with VINSON secure voice equipment; \$5.2 million for a modification to the Radar Warning Receiver Signal Processor

The FY 1982 program continues the modifications initiated in FY 1981 and provides for initiation of a replacement for the AN/APN-150/155 Low Altitude Radar Altimeter.

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Civil Reserve Air Fleet (CRAF) (FY 81 - \$78.9 million; FY 82 - \$85.8 million). The FY 1981 request of \$78.9 million is to incorporate cargo convertibility features into seven production line wide-bodied passenger carrying aircraft being procured by United States commercial air carriers to enhance the strategic airlift capability without increasing the Air Force aircraft inventory.

This will enhance the strategic airlift capabilities to satisfy The FY 1982 request is for seven additional CRAF arrcraft, the time-phased deployment requirements of a major contingency

AIR FORCE AIRCRAFT MODIFICATION PROGRAM STATUS OF FY 1980 AUTHORIZATION

Total Authorized \$1,637.9 million Total Appropriated \$1,573.9 million 30 November 1979 Obligations \$263.7 million 30 November 1979 Expenditures \$2 9 million

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The table below summarizes fund requirements for Fiscal Years 1980, 1981 and 1982 by aircraft/category:

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FY 1982	\$384.3	39.2	23.9	46.8	70.2	58.3	89.7	93.1	237.4	197.5	24.3	3.0	1.3	62.1	64.7	10.0	156.6	8.0	1.9	•	43.5	70.4	85.8	\$1,802.0
FY 1981	8.454.8	8	14.0	42.1	51.9	96.8	9~07	70.1	238.5	185.1	48.9	6.0	8.0	20.9	124.8	7.0	138.5	•	2.5	2.4	56.5	4.66	78.9	\$1,795.8
FY 1980	\$565.1	0.5 5.5	18.6	41.4	75.9	83.2	32.1	101.0	102.8	91.3	95.6	5.2	1	2.1	104.0	11.0	118.7	i	3.4	1	36.6	41.3	38.6	\$1,573.9
Aircraft/Category	B-52	FB-111	A-7	A-10	F/RF-4	F-15	I-16	F-111	EF-111	C-5	C-141	T-38	T-30	C-130	C-135	E-3A	E-4A	H-3	HH-53	04-10	Cth Air raft	Class, d Projects	CRAF	TOTAL

(In Thousands of Dollars)

Program Requirement - FY 82 ... \$2,001,200

Program Requirement - FY 81 ... 1,549,000

Program Requirement - FY 80 ... 1,099,670

Program Requirement - FY 79 ... 1,193,500

ACTIVITY: Aircraft Spares and Repair Parts

PART I PURPOSE AND SCOPE

aircraft being procured, the aircraft in the inventory, the modification and modernization program, related aircraft support equipment, and spares for Other Production programs, such as ECM pods. Investment type items are defined as reparable assemblies, spares and repair parts which are centrally managed, and most items have a unit cost of \$1,000 or more. This activity provides funds for centrally procured and managed, investment type spare components and repair parts for the

PART II JUSTIFICATION OF FUNDS REQUESTED

Provision is made for the procurement of investment initial spares, for which the funds must be programmed in FY 1981 and 1982 to provide support for new production aircraft, common support equipment, the aircraft modification program, and Other Production programs. Replenishment or follow-on spares and repair parts funds must also be committed and obligated for those items required for the 1982 and 1983 flying hour programs (procurement lead time away - that is, funds are programmed one to two years ahead of the flying hour program, depending upon component production leadtime).

The following table compares fiscal years in the various spare and repair parts categories:

(In Millions of Dollars)

	FY 1979	FY 1980	FY 1981	FY 1982
Initial Weapon System Spares	\$242.1	\$270.2	\$238.5	\$302.2
Initial Modification Spares	82.4	67.7	102.2	128.3
Initial Common AGE Spares	11.7	13.1	19.4	18.7
Initial Other Productior Spares	1		5.0	5.1
Total Initial Spares	\$336.2	\$351.0	\$365.1	\$454.3
Replenishment Spares	857.3	748.7	1183.9	1546.9
Total Spares and Repair Parts	\$1193.5	\$1099.7	\$1549.0	\$2001.2

Included in this combined initial/repl'nishment spares program are spare engines and those recoverable/replacement type items The basic determinant of the spares level required for an item is the time it operaing hours. The MIBD of an item is applied to the operating program of the weapon system to determine how many reparables will be generated during the period. From this, required pipeline quantities, base stock, depot stocks, and attrition replacements are determined. Maximum consideration is given to improved management actions, faster repair, air transportation, and selective management of high cost items. The buy requirements are intensively reviewed remiannually by an Air Force management This capability is Mean Time Between Demand (MTBD) and is expressed in which are normally repaired and returned to stock.

TR-1 aircraft. The FY 1981 replenishment spares program supports peacetime operating stock requirements, includes War Reserve Marteriel (WRM) spares for new aircraft being added to the inventory, and reduces WRM deficits caused by deferral of such procurement teriel (WRM) spares for new aircraft being added to the inventory, and reduces was deferral of such procurement in prior years. Initial spares include bpare engines and those new recoverable/replacement type items required for initial support of aircraft being procured and aircraft modification programs. The FY 1981 program includes spares for the A-10, F-15, F-16, KC-10, E-3A, and

WAR RESERVE - SECONDARY ITEMS

(\$ Millions)

FY 1980	\$2783.5 \$1512.8 \$4056.2 1411.9 1637.1 337.5 87.1	
Aircraft Ranlenishment Spares		

scenarios; the gross force size (number of aircraft wings); the number of days of WRM to be funded; and other general guidance requirements are contained in the DOD Consolidated Guidance (CG). The CG provides guidance regarding the length of the wartime Planning Assumptions: The planning assumptions used for computing aircraft replenishment spares War lative to the logistics area for which WRM requirements are computed.

Computation Methodology: WRM requirements are additive to peacetime needs, and are computed by a mechanized system for those items that are requirements consist of two segments as folthat are required for wartime usage, safety, and deemed mission essential. The WRM requirements consist of two segments as fol-

1. Prepositioned segment consists of:

- available at the deployed site. Based upon the maintenance concept, the using major command and the Air Force Logistics Command (AFLC) determine those essential items to be included in the WRSK, which is only a small portion of the total number of items used on a day-to-day basis in peacetime. The quantity of items to be included in the WRSK are computed using factors such as item deployed during the first 30 days of a war or contingency until resupply can be established. The basic configuration of a WRSK is determined by the maintenance concept to be used, i.e., Remove and Replace (RR) an item as opposed to Remove, Repair, and Replace (RRR) the item, Most of the WRSK are configured based on the maintenance RR concept since base level repair shops may not be concept is used, then other factors such as base repair time and item pipeline time are additive to those used in the RR concept. failure rates, number of items per aircraft. the flying hour program to be supported and available assets. If a RRR maintenance War Readiness Spares Kits (WRSK) are air transportable packages of spares that will support specific units tasked to
- b. Base Level Self-Sufficiency Spares (BLSS) are spares designed to augment eristing peacetime assets to support the initial fill the pipeline to the depot for those items the base cannot repair, and provide a safety level to cover random demands. Those increased wartime activity for specific units that will fight the war in place. BLSS requirements consider the same factors as those used in the WRSK computation. These requirements reflect the number of items required to support the base repair cycle, units which are authorized a WRSK are not authorized a BLSS.
- are used and until the production base can be expanded to satisfy wartime consumption. OWRM requirements are determined based on 2. Other War Reserve Materiel (OWRM) are spares required to sustain the force at wartime levels after the prepositioned assets the same factors used for WRSK/BLSS computations, which are applied to the total wartime flying hour program, requirements are then reduced by assets available from production, peacetime levels and WRSK and BLSS levels.

rates; increased wartime flying hour programs; modification of existing aircraft to increase wartime capability and increased cost wartime flying hour programs (sortie surge for tactical fighters) and inflation. The funding level for WRM spares is impacted by able improvement over the \$87.1 million contained in the FY 1980 Budget, reflecting a definite commitment on the part of the Air operational condition in order to meet wartime taskings. The FY 1981 war reserve funding level of \$337.5 million is a consider-Changes in requirements and funding levels are caused by many factors such as new aircraft activations; changes in item failure of items (inflation). The increase in the spares WRM requirements are driven primarily by new aircraft activations, increased fiscal constraints. Due to limited resources, Air Force funding vriority supports peacetime needs first and then WRM requirements. Priority support of peacetime needs is essential to ensure the force is trained and the aircraft are maintained in an Force to improve wartime readiness.

Arrcraft initial spares requirements by weapon system and fiscal year are listed below:

	*AIRCRAFT INITIAL SPARES (DOLLARS IN MILLIONS)	WILLIONS)
	FY 1981	FY 1982
TR-1	24.9	28.4
Nr. of Acft Procured	(')	(8)
A-10	1.5.1	10.8
Nr. of Acft Procured	(09)	(97)
F-15	113.1	110.7
Nr, of Acft Procured	(30)	(30)
F-16	57.4	114.0
Nr. of Acft Procured	(180)	(120)
KC-10	14.7	30.6
Nr. of Acft Procured	(9)	(9)
E-3A	13.3	7.7
Nr. of Acft Procured	(2)	(2)
*Modification Spares	102.2	128.3
Common AGE Spares	19.4	18.7
Other Production Spares	5.0	5.1
Total	365.1	454.3

*The aircraft initial spares requirements for each fiscal year are computed against the aircraft delivery schedules. Upon the determination of the requirement for each fiscal year's delivered aircraft, minimum essential financing is allocated to each fiscal year to provide adequate funding for item lead time protection.

| (In Thousands of Dr. llars) | Program Requirement - FY 82 ... \$1,956,046 | Program Requirement - FY 81 ... 1,518,543 | Program Requirement - FY 80 ... 1,302,141 | Program Requirement - FY 79 ... 765,507

ACTIVITY: Aircraft Support Equipment and Facilities

the week to the thing has been presented by forther

PART I PURPOSE AND SCOPE

items required to be on hand for immediate use in the event of war; and for other charges such as electronic countermeasure equipment. The activity also provides for procurement of flight simulation equipment for aircraft that are no longer in production, machinery, equipment and facilities required in the manufacture of items funded by this appropriation; for those war consumable This activity provides for support equipment required to service and test aircraft and their components; for industrial and for programs not associated with one specific weapon system.

PART II JUSTIFICATION OF FUNDS REQUESTED

The estimate for this activity is comprised of the following items: (In Millions of Dollars)

TINE ITEM	FY '979	FY 1980	FY 1981	FY 1982
Common Ground Equipment	\$239.0	\$282.8	\$269.1	\$352.8
Industrial Facilities War Consumables	73.9	55.8	76.0	85.3
Other Production Charges NATO AWACS	228.4 80.1	534.5 685.5 243.1	7.88.7 377.7	65.6 1134.7 317.7
ACTIVITY TOTALS	\$765.5	\$1302.1	\$1518.5	\$1956.1

Funding transferred to RDT&E, AF appropriation beginning in FY 1980, per Congressional direction.

Common Ground Equipment

The equipment is used on the The program also provides for the procurement of flight simulators and other training devices for aircraft that are out of production. Support equipment includes depot plant equipment, support equipment This program is for the procurement of organizational, base and depot level support equipment, both common and peculiar, for out-of-production aircraft and for common support equipment for new aircraft entering the inventory. for modifications, common training equipment and the following federal supply groups (FSG). flight line, in maintenance shops, and in the depots.

FSG 17 - Aircraft launching, landing, and ground handling equipment (trailers, platforms, slings).

- Maintenance and repair shop equipment (test stands, jigs, fixtures, noise suppressors). FSG 49

- Electric wire and power distribution equipment (generators and generator sets, converters). FSG 61

- Instrument and laboratory equipment (navigational and flight instruments, electrical and electronic measuring and testing equipment). 99

Other Federal Supply Groups - Pumps, compressors, air-conditioners, heaters, gauges, and specialized tools.

The following table shows a comparison, by year, by category, of support equipment:

(In Millions of Dollars)

NOMENCLATURE	FY 1979	FY 1980	FY 1981	FY 1982
FSG 17 FSG 49 FSG 61 FSG 66 Other FSGs Depot Plant Equipment Common Training Equipment (Simulators)*	\$ 33.4 62.7 23.2 16.9 24.4 14.9 63.5	\$ 50.1 28.0 23.5 31.1 33.0 18.5 98.6	\$ 38.5 32.2 23.2 23.4 22.4 19.3 110.1	\$ 27.8 65.6 21.4 14.8 51.8 19.6 151.8
TOTAL COMMON GROUND EQUIPMENT	\$ 239.0	\$ 282.8	\$ 269.1	\$ 352.8

*Common Training Equipment includes simulators for B-52 and F-106 aircraft.

Industrial Facilities

cilities; finances preparation for shipment of government production equipment to the Defense Industrial Plant Equipment Center or the timely establishment and improvement of manufacturing processes, techniques, or equipment required to support current and proto other priority Air Force users; provides funds for actions necessary to bring Air Force plants into compliance with noise, air The Industrial Facilities program provides for capital type rehabilitation of real property at Air Force owned industrial fatrial Readiness and Mobilization Planning Program. Funds are also requested for the Manufacturing Methods program which assures and water antipollution standards and to permit the reduction of energy consumption; and provides funds for the Air Force Indusjected Air Force programs.

The following table shows a comparison, by year, of the Industrial Facilities Program:

(In Millions of Dollars)

FY 1979 FY 1980	1.1 1.3									
FY 1981										
FY 1987	5.0	.2	16.0	2.0	6.64	.2	2.0	ŧ	10.0	85.3

The requirements for FY 1981 in each category in the above table are as follows:

Expansions: Required for real property modifications at Air Force Plant 4 (Fort Worth, Texas); Air Force Plant 6 (Marietta, Georgia); Air Force Plant 36 (Evendale, Ohio); and others.

Packing, Crating, and Handling: Required to prepare idle government-owned equipment for shipment to other locations,

Capital Type Rehabilitation: Required for rehabilitation of government-owned, contractor-operated industrial production facilities. Included are Capital Type Rehabilitation projects tor General Dynamics, Fort Worth, Texas; Lockheed-Georgia, Marietta, Georgia; Rockweil International, Palmdale, California; General Electric, Binghamton, New York, and others. AND THE STORY OF STREET STATE OF THE STREET

Modernization: Required for updating of selected machine tools at Air Force Plant 6 (Lockheed-Georgia, Marietta, Georgia).

current state of the art. Directly improves the productivity of the U.S. industrial base required to produce Air Force systems by conducted under contract with private industry through competitive procurement, with results disseminated throughout the industry. validating new manufacturing methods and demonstrating them in the production environment. Establishes a systematic approach to All capital facility investments are borne by industry, and projects are negotiated with an Air Force business strategy aimed at securing all data rights, commitments to establish competitive production sources, and a requirement for an open end-of-contract production and manufacturing throughout the aerospace industry, and assures a high return-on-investment (ROI) by timely applicacomponents (\$5.8 million); electronmagnetic windows and electronic materials and devices (\$2.4 million); and Integrated Computer tion of results across the industry, as well as reducing the cost of specific Air Force systems acquisitions. All projects are nillion); composite structures and materials (\$4.8 million); nondestructive evaluation (\$5.2 million); propulsion materials and Manufacturing Methods: Required for the establishment, transition and implementation onto the facility floor of new or significantly improved manufacturing methods which are based upon the results of the RDT&E and IR&D programs and which are beyond the demonstration of results achieved. The FY 1981 program includes emphasis on areas such as metallic structural materials (\$5.5 Aided Manufacturing (\$16.9 million);

Environmental Protection: Required for atmospheric and water antipollution projects at Air Force Plant 65 (Teledyne, Neosho, Missouri) and Air Force Plant 83 (General Electric, Albuquerque, New Mexico).

, j ,,

Energy Conservation: Required for high retuin on investment projects at facilities such as Air Force Plant 4 (General Dynamics, Fort Worth, Texas); Air Force Plant 6 (Lockheed - Georgia, Marietta, Georgia); Air Force Plant 47 (ALCOA, Cleveland, Ohio); and Air Force Plant 59 (General Electric, Binghamton, New York).

1' COMPONENT Air Force FY 19	E1 PROCUREMENT P	ROJECI	DATA			2	6 Sc	E pr 1979
3 INSTALLATION AND LOC Air Force Plant	4/ACFJ		4 PROJ					
Fort Worth Texas 5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJ	ECT NUM	ansion BER		ROJECT	COST I	S000)
78011F	See Item 9	237.0						
	9 COS	TESTIMA	TES					
	ITEM		U/M	QUAN	TITY	UNIT CO	ST	COST (\$600)
				-				
(1) MSE Paint Dry	Room (221-221)		IS					42.0
(2) Modify Wire Co	ut Room (221-221)		LS				Ì	75.0
(3) Environmental (310-441)	Control Area, Bld	lg #134	LS					L20.0
3 5								

- (1) The project will include:
- a. Constructing (4) walls from the floor to the underside of the mezz at Co. 143-145L.
 - b. Installing (1) pedestrian and (2) 3' x 10' overhead doors.
 - c. Installing a filtering system and additional blowers.
 - d. Reworking existing ducts, plumbing, and electrical.
 - e. Installing explosion proof lighting.
- (2) This project includes extending the east and west walls of the existing wire cut room from 8' to 12' high, and installing a ceiling, lights, sprinkler system, and duct work. Total area is 4200 square feet.
- (3) Construct an environmentally controlled enclosure for the fluid flow calibration equipment in Building 134. New air conditioning, heating and humidity control equipment is required.

Air Force J FY	19	E1 PROCUREMENT P	ROJECT	DA'	TA				-	Sept 1979
3 INSTALLATION AND Air Force Plant	10	CATION		4	PROJE	CT TITE	E			
Fort Worth, TX				E	xpan	sion				
5 PROGRAM ELEMENT		E C TEGORY CODE	7 PROJ	ECT	NUMB	ER	8 PF	POJECT	COS	T (S000)
78011F		813–231					_ 3	3608.0	0	
		9 COS	T ESTIMA	TES				,		
		ITEM			U/M	QUAN	71 7 Y	UNIT C	оѕт	COST (\$000)
Install Primary	Εl	ectrical Substatio	n No.	6	KV	20000)			3608.0
36										

This installation is to be a 20 MVA, $60 \, \text{KV} - 4160 \, \text{V}$, 3 phase substation to support the two that were installed in 1941 and 1942, the one constructed in 1956, and the two that were installed in 1967 and 1968. It is to be located adjacent to the five existing primary substations.

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1 COMPONENT Air Force FY	19 81 PROCUREMENT PI	ROJECT	DATA	A	***			DAIE Scpl 1979
3 INSTALLATION AND AFP 28, General			4 PR	OJEC	CT TITL	.E	, 	ی و میدندی سند سه ۱۳۰۰سیوهیو
					nsio	n		·
5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJE	ECT NI	UMBE	ER	8 PF	ROJECT CO	ST (\$000)
78011F	See Item 9	l					26.5	
	9 .COS	T ESTIMAT	res					
	ITEM		_ u	U/M	QUANT	TITY	UNIT COST	COST (\$000)
1. Construct Shed and 17 (221-222)	l Roof Between Bldgs	22A	L	ದ	-			26.5
37								

The ground area between Bldgs. 22 and 17 is six (6) foot wide and eighty (80) foot long. This area has no surface drainage and the grade is such that rain and melting snow runs into Bldg. 17 and an X-Ray Area. This condition creates a serious electrocution hazard and/or the possibility of serious injury as the result of slipping on wet floors. The contractor has examined possible solutions to this problem such as regrading and installing surface drains versus constructing a shed roof and finds the shed roof to be most practical and economical. The roof will be constructed with light steel framing covered with insulated corrugated siding and roofing. This will divert rain and melting snows over the roof of Bldg 17 and ultimately to yard drainage.

'I COMPONENT						-	DATE
Air Force FY 19	E1 PROCUREMENT PI	ROJEC:	DATA			6	Sept 1979
3 INSTALLATION AND LO		1.	4 PROJE	CT TITL	.E		
AF Plant 42, Lock	kheed CA Site Two	j	_				
				pansio			
5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJE	CT NUM	ER	8 PF	OO TOBLOF	ST (\$000)
78011F					l		
78011F	See Item 9			7	5.0		
	9 COS	res					
	ITEM		U/M	DUAN	TITY	UNIT COST	COST
						(\$000)	
(1) Install condens	ate trans in all A	Air Line	s	1			
Site 2 (8901"")	are orapo in all i		LS	ł		1	20.0
5100 2 (0)01)				l		1	1 -0
(2) Install heating	& air conditionir	יסר	LS	İ		1	5.0
system in Bldg 231		*6		1			
	(020122)		{	1		1	
(3) Reseal, replace	and add new asph	nalt.	IS				50.0
paving on various 1				1 .		1	
line (116-642)		-6.10	İ	ĺ		[1
(220 0 12)			1	}		1	
			1	1		ļ	
			- 1	1		ļ]
			- 1			{	
6.3				1		-	
l &			1	1		Í	
_			}	1]	
			i	1		}	1

- (1) Additional traps are required to eliminate moisture in air lines which presents a maintenance problem and damages air operated tools.
- (2) The Heating and Cooling System in the carpentry shop is inadequate for operations presently being performed. For personnel efficiency, the heating and cooling system needs to be replaced with a larger system.
- (3) Present storage space is provided on existing ramp and in dirt areas adjacent thereto. This presents a hazard to aircraft movement and dirt carried onto the ramp from equipment stored in dirt area presents a FOD problem.

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1 COMPONENT Air Force FY 19	E1 PROCUREMENT P	ROJECT DA	TA				Sept 1979
3 INSTALLATION AND LOC Air Force Plant No Marietta GA 30063			PROJE	ct titi	E		
5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT			8 PF	OJECT CO	ST (\$000)
73011F	See Item 9					738.6	
	9 COS	TESTIMATES	,				
	ITEM		U/M	QUAN'	TITY	UNIT COST	CO\$1 (CO2)
(1) Pave Engine Rur (116-664)	1) Pave Engine Run Up Positions 116-664)						62.6
(2) Improvement of Flight Line Area (87	Security Fencing, 72-247)		LF				75.0
(3) Relocate Centra Bldg B-1 to Bldg B-1 221)			LS			;	٠.1
(4) Additional Rest for Bldg B-95 (610-1	crooms and Loading 123)	Dock	LS				431. <i>9</i>
<u>အ</u>							

- (1) Four-inch deep concrete on a four-inch base course will be constructed as a ground cover west of Flight Line Engine Run-up Positions 71 thru 74 for blast protection. Slope drains, underground electrical relocation, grading, and turfing are included.
- (2) Approximately 7,400 linear feet of 6 foot high woven wire security fencing topped by three strands of barbed wire and including seven double gates will be erected east and south of the North-South Runway from the Taxiway on the north to the existing boundary fence southwest of the south terminous of the runway.
- (3) The central sealant crib in Bldg B-l will be relocated to an area of approximately 2,265 sq. it on the ground floor of the east lean-to of Bldg B-l02 (Empennage Astably Bldg). The work will include the construction of a fire-rated dividing wall between columns 6 and 7, installation of a fire resistant gypsum board ceiling, provision of explosion proof lighting fixtures and electrical receptacles, modification of automatic sprinkler system, and installation of exhaust and H.V.A.C. Systems, service sink, ficordrain, curbs and fire-rated interior doors. In addition, sealant drums will be relocated from the sealant drum storage crib, and an overhead monorail drum-handling system will be installed.
- (4) Construction of (2) restroom clusters which shall accommodate 400 persons with a men/women ratio of 3:1 and which shall comply with all OSHA rerequirements. A lift platform will also be installed which shall only be large enough to accommodate one (1) large truck at a time.

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	COMPONENT ir Force	FY 19	81 PROCUREMENT P	ROJECT	DA:	ΓA			,	Sept 1979
3	AFP 83, Ge	AND LO	CATION Electric		4	PROJE	CI TITL	E		
	,					1	Expans	sion		
5	PROGRAM ELEN	MENT	6 CATEGORY CODE	7 PROJ	ECT	NUMB	ER	8 PF	SOJECT CO	ST (\$000)
78011F 228-228 600.0						0.0				
			9 COS	T ESTIMA	TES					
			ITEM			G/M	QUAN	TITY	UNIT COST	COST (\$000)
Exp	pand castin	g faci	lity (30,000 sq ft	;) Bldg	; 21	LS				600.0
,	02									

Increasing production requirements in the Directional Solidification Cast Turbine Blades business require the expansion of these facilities In Bldg 21. An additional 30,000 square feet will satisfy the forecast load requirements. The project will include the extension of facilities into the new building addition.

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81 PROCUREMENT P	ROJECI	DAT	ΓA				DATE 6 Sept	1979
-		4 1	PROJE	CT TITL	.E			
Dynamics						Expans	ion	
6 CATEGORY CODE	7 PROJ	ECT	NUMB	ER	8 PF	ROJECT	OST ISUO))
See Item 9		16.0						
9 COS	T ESTIMA	TES						~
ITEM			U/M	QUAN'	TITY	UNIT COS	ST COS (\$00	ST 001
ty guard house (73	30832)		LS				16.0	
	CATION Dynamics 6 CATEGORY CODE See Item 9 9 COS	Dynamics 6 CATEGORY CODE 7 PRO. See Item 9 9 COST ESTIMA ITEM ty guard house (730832)	Dynamics 6 CATEGORY CODE See Item 9 9 COST ESTIMATES ITEM ty guard house (730832)	Dynamics 6 CATEGORY CODE 7 PROJECT NUMB See Item 9 9 COST ESTIMATES U/M ty guard house (730832) LS	Dynamics 6 CATEGORY CODE 7 PROJECT NUMBER See Item 9 9 COST ESTIMATES ITEM U/M QUAN ty guard house (730832) LS	Dynamics 6 CATEGORY CODE 7 PROJECT NUMBER 8 PROJECT NUMB	CATION Dynamics Expans 6 CATEGORY CODE 7 PROJECT NUMBER 8 PROJECT COMMENTS 9 COST ESTIMATES ITEM U/M QUANTITY UNIT COMMENT	Dynamics A PROJECT TITLE Expansion

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^{3.} The replacement of the main guard house at the plant entrance (Gate 23) is recommended due to deterioration because of age and termites. This is relevant for maintaining plant protection.

TOMPONENT AIR FORCE FY 19	E1 PROCUREMENT P	ROJECT	DAT	:A				Sept 1979	
3 INSTALLATION AND LO	CATION		4 P	ROJE	TITL	E			
AFP 42, Northrop	Site 5						Expans	ion	
5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJ	ECT	NUMB	ER	8 26	ROJECT CO	T (S000)	
78011F	See Item 9		54.5						
9 COST ESTIMATES									
	ITEM			U/M	QUANT	'ITY	UNIT COST	COST (S00 0)	
(1) Construct Sun Tanks (730—142)	Shield over Foam S	Storage						3.0	
(2) Install restra 221)								51.5	
%									

- 1. A rccf-like structure will be installed over two 1800 gallon foam storage tanks. Supports and decking will be steel construction. Structure required to reduce expansion of aqueous film forming foam concentrate for fire protection.
- 2. Install restroom facilities in Building 425 to serve an estimated 17 men and one woman who perform Site 5 facilities maintenance operations. Restrooms shall conform to UBC, UPC, CAL/OSHA regulations, and safety and health standards for contractors performing federal supply contracts under the Walsh-Healey Public Contracts Act. Facilities for the handicapped shall be included. Connect to sewer and domestic water supply lines located approximately 120' east of Building 425.

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

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	Air Force FY 19 81 PROCUREMENT PROJECT DATA									_	Sept 1970
3	Air Force Plan Cincinnati OH	t 3	86/ACGS			pans	ion	E			
5	PROGRAM ELEMENT		6 CATEGORY CODE	7 PRO.	ROJECT NUMBER 8 PROJECT COST IS000					T (\$000)	
	78011F See Item 9							1,	761.5		
L			9 COS	T ESTIMA	TES				, ——		
			U/M	QUAN	TITY	UNIT C	ост	COST (\$000)			
1) West Dock (((890-152)	ons	struct)			ıs					107.1
2) Replace Sect (730-835)	rit	y Guard House #25			LS				į	83.64
13) Prep to Test (211-183)	Aı	rea (Construct)			LS					1570.8
	43										

- (1) The proposed project for the West Dock provides for the construction of three (3) dock enclosures with three doors and three seals and an incline ramp to accommodate loading and unloading. Adequate lighting will be provided in the interest of safety, security and efficiency.
- (2) Proposed for this project is the replacement of an existing security guard house (#25) and modification and improvement of the access gate to accommodate the increased usage of Building B. The existing guard house provides for pedestrian traffic only. Adjacent fuel lines prohibit the economical utilization of the existing guard house to accommodate vehicular traffic. A sliding vehicle gate along with a pedestrian gate will be installed. Repair of road with additional paving in area adjacent to road will be done to provide for access of vehicular traffic.
- (3) The Prep to Test Building will encompass approximately 7,000 sq ft and will be located west of Test Cells M34 and M35. The bldg will be a prefabricated steel structure with several work stations. The work stations will have hoist systems capable of lowering to pick up an engine/mount/cowl combination or lowering to remove or install an engine from/into the transportation dolly and to mate/demate the engine to its mount. The work stations will incorporate cell type interfaces for a limited checkout of engine instrumentation. These interfaces will connect to an instrumentation room where the data acquisition, diagnostic system will be located. A storage area will be provided for instrumentation and other equipment used in preparing the engine for test.

١,	COMPONENT	v 10	Ot Drommarry D	Do 1860					1 -	DAIL
1	Air Force F\	1 13	E1 PROCUREMENT P	ROJECT	DA:	ΓA			0	Sept 1979
3	INSTALLATION AN			· · · · · · · · · · · · · · · · · · ·	4	PROJE	CT TITL	E		
	AIR FORCE P				EXI	PANS	ION-	res:	r CELL	#36
L	CINCINNATI,									
5	PROGRAM ELEMEN	NT	6 CATEGORY CODE	7 PROJ	ECT	NUMB	ER	B PI	ROJECT CO	ST (SO20)
	78011F		211-183					\$9	9,513.0	
			9 COS	TESTIMA	TES					
			ITEM			U/M	QUANT	TITY	UNIT COST	COST (\$000)
	Construc tio	n o	f Jet Engine Te	st Ce	11	LS				9,513.0
									}	
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; 										
	_					'				
	2					į				
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The proposed test cell will occupy approximately 15,000 sq. ft. and will be constructed of reinforced concrete similar to Test Cells 34 and 35. These cells were originally built for testing TF39 engines and have more recently been used as a testing source for high bypass, high thrust engines. The proposed location for the new test cell has been chosen due to its proximity to the planned Prep-to-Test area, Test Engineering and Engine Assembly, which simplifies maintenance and provides for efficiency in supervision. This cell will also utilize the same services provided for Cells 34 and 35, i.e. utilities, fuel, waste oil system, etc.

DD 1000 1391

PREVIOUS EDITIONS MAY BE USED INTERMALLY
UNTIL EXHAUSTED

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		-	-		_				
" COMPONENT Air Force	FY 19	E1 PROCUREMENT P	ROJECT	DA'	ΓA			1 -	DATE 6 Sept 1979
3 INSTALLATION	AND LO	CATION		4 1	PROJE	CT TITL	E		
AFP 42, North	hrop S	ite 5		Car	oital	L Type	Reh	abilita	tion
5 PROGRAMELEN	MENT	6 CATEGORY CODE	1 PROJ	ECT	NUMB	ER	8 PF	ROJECT CO	OST (\$000)
78011F		See Item 9					34	.0	
		9 COS	TESTIMA	TES		,			
		ITEM			U/M	QUAN	TITY	UNIT COST	COST (\$000)
Install Headwarfence. (872-24		d culvert, repair	, perim	nete	r LS				34.0
40 05550177101									

The property of the second

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Install headwalls and culverts to support and maintain the perimeter fence on the north side of Site 5 which has been washed out due to an ineffective seal and eroded soil conditions caused by rain; regrade eroded soil and repair perimeter fence as needed.

r COMPONENT Air Force	FY 19	E1 PROCUREMENT P	ROJECT	DAT	CA.			1 -	DATE Sept 1979
3 INSTALLATION A AFP 83 Gera				4 F		ollut:		Abateme	nt.
5 PROGRAMELEM 78011F	ENT	6 CATEGORY CODE 228–228	7 PROJ	ECT	NUMB	ER	8 PF	3.0	OST (\$000)
9 COST ESTIMA				ATES					
		ITEM			U/M	QUAN	TITY	UNIT COST	COST (\$000)
Spill Prevent: Pollution Abat		ountermeasure Cont Project	rol		LS				153.0
94									

This project consists of the following tasks:

- a. Revise drainage in chip storage area to divert oily waste to existing containment pit.
- b. Revise Battery Storage area to contain washdown from storage area and tie in to oil separator and then to plant sanitary sewer.
- c. Revise two areas to divert effluent from storm drain to sanitary sewer system after passing thru oil separator.
- d. Construct a containment pit 31 X 30 and lean-to for chemical storage area at south end of Bldg 10.
 - e. Install containment around drain storage area near Bldg. 30.

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

War Consumables

The funds requested, along with prior funded assets, will provide additional wartime support needed, in the event of hostilities, to sustain operations until such time as production could be expanded to provide the required level of support. Included in this program are auxiliary fuel tanks, pylons, ejector racks and adaptors which are consumed during wartime operations.

The following is a breakout, by fiscal year, of the War Consumables program:

(In Millions of Dollars)

	7717 117	Carried to constitution		
	FY 1979	FY 1980	FY 1981	FY 1982
F-15 Aircraft	\$ 5.4	•		
F-16 Aircraft	25.3	\$34.9	\$ 7.0	\$61.4
HH-53 Aircraft	1	ı	ı	7.4
F-4 Aircraft	3.4		1	1
TOTAL War Consumables	\$34.1	\$34.9	\$ 7.0	\$65.6

Other Production Charges

cannot be reasonably allocated and charged thereto. It also includes items, such as Electronic Countermeasure (ECM) Pods, Pave Tack Pods, LANTIRN, GBU-15, and Pave Penny Pods, that are used by more than one weapon system and managed as end items themselves. This program provides for items, such as Classified Projects, Alternate Mission Equipment, Precision Location Strike System and Air Combat Maneuvering Instrumentation, that are not directly related to other procurement lines in this appropriation and

The foliowing table provides a comparison, by fiscal year, of the items in this program:

(In Millions of Dollars)

	FY 1979	FY 1980	FY 1981	FY 1982	
Classified Projects 1/	\$ 121.5	\$ 415.6	\$ 553.4	0 70%	
ECM Pods Pave Tack Pods	18.6	108.2	148.8	236.1	
Pave Penny Pods	10.0	97.1	1 (r	
Airborne Video Tape Recorder/ Cockpit TV Senaor	2 × 0	12.8	28.3 13.4	22.3 10.3	
Alternate Mission Equipment Air Combat Maneuvering	88.3	22.8	25.9	20.6	
Instrumentation	o.	∵ . ∞	6.7	6.8	
GBU-15 LANTIRN	3.0		11.2	8.8	
Precision Location Strike System			1.0	116.6 8.2	
TOTAL OTHER PRODUCTION CHARGES	\$ 228.4	\$ 685.5	\$ 788.7	7 72113	

Includes \$43.1 million in FY 79, \$35.4 million in FY 80, \$36.1 million in FY 81 and \$42.4 million in FY 82 for NFIP.

Justification for the various line items is as follows:

Includes the Air Force Tactical Improvement Program and several National defense projects which are classified Sprcial Access,

The pode are used on sevral tactical strike/reconnaissance aircraft, the ALQ-119, pods, such as update of inventory ECM Pods: Includes the procurement of new pods, such as the ALQ-131, and Soviet threats. tain capability to counter the latest

Fave Tack Pods: These pods provide a 24 hour target acquisition/laser designation system for F-4E, RF-4C, and F-111F aircraft.

The small, 32 pound, pod provides a day and night laser seeker capability to A-10, F-16, and Pave Penny Pods: These pods are low-cost laser seekers which detect reflected laser energy from targets designated by tems such as Pave Tack.

Aircrews, maintenance crews, and combat and train-Airborne Video Tape Recorder (AVTR)/Cockpit TV Sensor (CTVS): The AVTR records all audio available at the aircrew headset and all video displays on the radar/Electro-Optical display and head-up display (MUD). Aircrews, maintenance crews, and combat and train ing units use the video tape recordings to analyze mission and training results and for trouble shooting and maintenance. The AVTR is common to the entire tactical force. The CTVS will replace the existing gun camera which employs film, the advantage is that no film processing is required, making the data available for use immediately after landing. The CTVS will provide imagery data to the AVTR for recording.

to provide Alternate Mission Equipment: The program procures electronic warfare and airborne photography/reconnaissance equipment to provic countermeasure capabilities against changing enemy electronic defenses or for other unpredicted and urgent operational require-

The pod is mounted on Air Combat Maneuvering Instruentation (ACMI): This is a joint Air Force/Navy program to procure pods which provide accurate kill/no kill data for assessment of tactics and aircrev training at the Air Combat Maneuvering Range. The pod is mounted on standard launch rail and transmits attitude, airspeed, altitude, angle of attack, and weapons information to ground sites.

The pods This program provides a radio frequency link between an aircraft and a GBU-15 Modular Guided Weapon System from GBU -15 PODS: This program provides a radio frequency link between an aircraft and a GBU-15 Modular Guided Weapon System weapon launch to impact to enable man-in-the-loop guidance for improved weapon CEP and enhances aircraft survivability. are used on F-4E, F-111F and B-52D aircraft in an interdiction, defense suppression, and sea lane protection role.

provide a night, Low Altitude Navigation and Targeting Infrared System for Night (LANTIRN): Includes procurement of new pods to provide under weather capability on the A-10 and F-16 aircraft to automatically attack ground vehicles on low level mission in

and strike of non radiating targets. Funds provide the airborne relay The PLSS will provide stand-off defense suppression by near real time location and Precision Location Strike System (PLSS): vehicle portion of PLSS. weather strike of

U.S. Contribution to NATO Airborne Warning & Control System (AWACS) Aircraft Program

total U.S. share through FY 1985, to be paid in annual increments, is \$1,408 million. NATO's acquisition of its own force of 18 AMACS sircraft, to be complemented by 11 United Kingdom Nimrod Airborne Early Warning aircraft, for operations in Europe will make wispon systems while helping to standardize system capabilities. The NATO AWACS will be interoperable with the USAF AWACS, the UK vironment, will provide improved air defense and counter-air operations for NATO forces. It will provide deep look surveillance and deterrance of potential warsaw Pact threats, and improve the military responsiveness of the Alliance through its early warning, surveillance and information distribution capabilities. In wartime, the AWACS will increase the effectiveness of Allied Nimrod AEW, and with both U.S. tactical and European national command and control systems. The unprecedented Alliance-wide coma major improvement in the military effectiveness of the Alliance, particularly against the growing low level air attack threat posed by the Warsaw Pact. This AWACS force, with attendant equipage, basing, and modification to the European ground radar en-This program provides the U.S. share of costs, including acquisition, operation, and support, of the NAFO AWACS program. monly funded program is the most practical way for the Alliance to attain an effective Airborne Early Warning capability,

(In Millions of Dollars)

FY 1982	5 317.7
FY 1981	\$ 377.7
FY 1980	\$ 243.1
FY 1979	\$ 80.1
	AWACS

NATO

COMPARISON OF FY 1980 PROCRAM REQUIREMENTS AS REFLECTED IN FY 1980 BUDGET WITH FY 1980 PROGRAM REQUIREMENTS AS SHOWN IN FY 1981 BUDGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Lotal Program Requirements Per 1980 Budget	Total Program Requirements Per 1981 Eudget	Increase + or Decrease -
Combat Aircraft	\$1,875,900	\$3,986,250	\$+110,350
Modification of In-Service Arcraft	43,000	43,000	+17,220
Aircraft Spares and Repair Parts	1,5/5,100	1,573,900	-1,200
Reimbursable Program ,	1,419,400	1,302,141	+81,870 -117,259
Total Fiscal Year Program	0.000	361,335	-262,435
10.40	\$8,554,970	\$8,443,516	\$-111,454
	EXPLANATION BY BUDGET ACTIVITY		

The increase is a result of Congressional action on the FY 1980 Budget: A-7K (+\$123.3); Combat Aircraft - (+\$110.3 million). E-3A Advance Procurement (-\$13.0).

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- Airlift Aircraft (+\$77.2 million). Congress added 8 C-130H aircraft to the FY 1986 Budget.
- 5. Modification of In-Service Aircraft (-\$1.2 million). Congress added \$47.8 million for the EF-111, and \$5.0 million for the KC-135 re-engine program to the FY 1980 Budget and reduced CRAF by \$35.0 million and Ciassified Projects by \$19.0 million.
 - The increase resulted from Congressional action on the FY 1980 Budget: 6. Aircraft Spares and Repair Parts - (+\$81.9 million). The increase resulted from Congressional action on the F F-100 Engine Spares (+\$75.4); A-7K Spares (+\$8.5); C-130H Spares (+\$2.5); and Classified Projects Spares (-\$4.5).
- 7. Aircraft Support Equipment and Facilities (-\$117.3 million). Congress deleted \$104.4 million for the Component Improvement Program from the FY 1980 Budget and reduced Other Production Charges by \$10.0 million (\$7.1 for NATO AWACS and \$2.9 for Class fied Programs). Also a reprogramming request will be submitted to Congress to transfer \$2.9 million from Other Production Charges to
- Reimbursable Program (-\$262.4 million). The decrease is due to a revised estimate of customer orders anticipated for . .

COMPARISON OF FY 1980 FINANCING AS REFLECTED IN FY 1980 BUDGET WITH FY 1980 FINANCING AS SHOWN IN THE FY 1981 BUDGET

		(in Thousands of Dollars)	of Dollars)	
	Financing Per FY 1980 Budget	Financing Per FY 1981 Budget	Increase (+) or Decrease (-)	
Program requirements (Total)	\$8,554,970	\$8,443,516	\$-111,454	
Program requirements (Service account)	(7,931,200) (623,770)	(8,082,181) (361,335)	(+150,981) (-262,435)	
Less:	623,770	467,335	-156,435	
Reappropriation	•	13,800	+13,800	
Add:				
Transferred to other accounts	ı	2,859	+2,859	
Appropriation	\$7,931,200	\$7,965,240	\$+34,040	

EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1980 program has decreased \$111,454 thousand since submission of the FY 1980 budget. Adjustments by category are explained below:

- The decrease of \$156,435 thousand is due to a revised estimate of customer orders anticipat-1. Anticipated Reimbursements. ed in FY 1980.
- 2, Reappropriation. The reappropriation is a transfer from FY 1979 to finance FY 1980 by Congressional direction, specified in P.L. 96-154.
 - 3. <u>Transferred to Other Accounts.</u> \$2,859 thousand is proposed for transfer to Research, Development, Test and Evaluation, Air Force FY 1980.

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COMPARISON OF FY 1979 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1980 BUDGET WITH FY 1979 PROGRAM REQUIREMENTS AS SHOWN IN FY 1981 BUDGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Total Program Requirements Per 1980 Budget	Combat Aircraft 68,500 Airlift Aircraft 10,270 Other Aircraft 10,270 Modification of In-Service Aircraft 987,800 Aircraft Spares and Repair Parts 1,327,90 Aircraft Support Equipment and Facilities 775,507 Reimbursable Program 614,100	Total Fiscal Year Program \$7,758,807
Total Program Requirements t Per 1981 Budget	\$3,957,000 67,500 10,200 943,700 1,193,500 765,507 491,247	\$7,428,654
Increase + or Decrease -	-18,300 -1,000 -134,100 -134,400 -9,500 -122,853	-\$330,153

EXPLANATION BY BUDGET ACTIVITY

- The net decrease was caused by: a transfer by Congress of \$13.8 million from the FY 1979 1. Combat Aircraft - (-\$18.3 million), The net decrease was caused by: a transfer by Congress of \$13.8 million from the FY 197.
 A-10 program to finance the FY 1980 A-10 program; a Congressionally approved reprogramming of \$9.0 million from the F-16 to the O&M, AF appropriation; and a below threshold reprogramming of \$4.5 million to the KC-10 from the Common Ground Equipment procure-
- Airlift Aircraft (-\$1.0 million). The decrease was the result of a Congressionally approved reprogramming to CHAMPUS.
- 5. Modification of In-Service Aircraft (-\$44.1 million). The decrease resulted from disapproval by Congress of the FY 1979 Cupplemental Budget (\$40.0 million) and a Congressionally approved reprogramming of \$4.1 million to the O&M, AF appropriation.
- 6. Aircraft Spares and Repair Parts (-\$134.4 million). The decrease was caused by the disapproval by Congress of the FY 1979 Surplemental Budget of \$134.4 million.
- 7. Aircraft Support Equipment and Facilities (-\$9.5 million). The decrease was the result of a Congressional reduction of \$5.0 million to the FY 1979 Supplemental Budget request for NATO AWACS and a below threshold reprogramming of \$4.5 million from Common Ground Equipment to the KC-10.
- The decrease is due to customer orders received being less than forecast. Reimbursable Program - (-\$122.9 million).

COMPARISON OF FY 1979 FINANCING AS REFLECTED IN FY 1980 BUDGET WITH THE FY 1979 FINANCING AS SHOWN IN THE FY 1981 BUDGET

	808	(in Thousands of Dollars) Financing Increase Per FY 1981 or	f Dollars) Increase (+) or	j
	Budget.	Budget	Decrease (-)	Í
Program requirements (Total)	\$7,758,807	\$7,428,654	\$-330,153	
Program requirements (Service account)	(7,144,707) (614,100)	(6,937,407) (491,247)	(-207,300) (-122,853)	
Less:				
Anticipated reimbursements	614,100	491,247 80,100	-122,853 +80,100	
Add:				
Transferred to other accounts	8,100	22,200 13,800	+14,100	
Appropriation	\$7,152,807	\$6,893,307	\$-259,500	

EXPLANATION OF CHANCES IN FINANCING

Adjustments by Fiscal Year 1979 program has decreased \$330,153 thousand since the submission of the FY 1980 budget. of financing are explained below: category

- The decrease of \$122,853 thousand is due to fewer actual customer orders in FY 1979. Anticipated Reimbursements.
- 2. Unobligated Balances Transferred from Other Accounts. \$80,100 thousand was transferred from Aircraft Frocurement, Air Force, FY 1977 in accordance with Section 834 of the DoD Appropriation Act of 1979.
- 3. Transferred to Other Accounts. \$8,100 thousand was transferred to Research, Development, Test and Evaluation, FY 1979, \$13,100 rhousand was transferred to Operation and Maintenance, Air Force, FY 1979, and \$1,000 thousand was transferred to CHAMPUS, FY 1979, all in accordance with Section 834 of the DoD Appropriation Act of 1979.
- Financing adjustment to finance FY 1980 program per 4. Unobligated Balance to Finance Subsequent Year Budget Plans. Congressional direction, specified in P.L. 96-154.

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ANALYSIS OF UNOBLIGATED BALANCES - 30 SEPTEMBER 1981
SUMMARY BY CATEGORY
(In Millions of Dollars)

		FY 1980	FY 1981	Total	% of Total Unobligated
1.	Military Interdepartmental Purchase Requests: (MIPRs)	\$27.0	\$64.0	\$91.0	3.0%
2,	2. Completing Contractual Arrangements:				
	a. Specification Definitions	65.7	155.7	221.4	7.37
	b. Price Redeterminations	146.7	347.7	7.767	16.3%
	c. Definitization of Contracts	252.0	597.3	849.3	28.0%
Э.	Full Funding Policy:				
	a. Delayed/Revised Program Release	300.7	712.5	1,013.2	33.4%
	b. Engineering Changes	108.0	256.0	364.0	12.0%
	TOTAL UNOBLIGATED FY 1981	\$900.1	\$2,133.2	\$3,033.3	

EXPLANATION

Unobligated balances are required for programmed and needed items on which contracts have not reached the obligational talled specifications, issue Requests For Proposals (RFPs) and to negotiate and finalize contracts for procurement of investment Procurement funds are available for obligation for three years because of the extensive lead time required to develop destage by the end of the fiscal year because of the procurement process.

The following are illustrative of the reasons which will cause unobligated balances at the end of each fiscal year:

- Military Interdepartmental Purchase Request (MIPRs) (\$91.0 million) These documents are used to request one of the othquently, contractual arrangements will have been completed and the obligation incurred but notification from the other service is er military services to procure Air Force requirements in conjunction with their own or with those of another service, Funds to support these requests remain unobligated until notification of contract award is received from the other military service. Fre not received in time for recording in Air Force records prior to or at the end of a fiscal year.
- 2. Completing Contractual Arrangements:
- a. Specification Definitions (\$221.4 million) Unobligated funds result when specifications for newly introduced items cannot be definitized in time to permit contract negotiation prior to or at the end of the fiscal year.
- and penalties of multiple incentives (cost, performance and schedule) cannot be determined and obligated prior to the end of the fiscal year. Funds are reserved for these purposes when upward adjustments seem likely; however, obligation does not occur until Final obligation for contracts must await negotiations on agreed target-ceiling formulae. In most large contracts, the rewards Price Redeterminations (\$494.4 million) - Prices are redetermined at intervals throughout the life of a contract. a formal redetermination has been agreed upon and the contract amended. Unobligated funds at year end result.
 - The letter contract generates a partial obligation of the total program value with the balance remaining committed but unobligated pending definitization and negotiation of the detailed contract terms. These acc. Definitization of Contracts (\$849.3 million) - Procurements of complex systems and large material orders may occations can carry over the end of a fiscal year and result in unobligated funds.

- ations and funds must be available in a given fiscal year for obligation, committed or set aside in a reserve account in an aggre-- This policy, enunciated in DoD Directive 7200.4 (October 30, 1969) provides that adequate appropri-Unobligated balances at the end of a fiscal year are a consequence of this policy and accrue in the following categories: gate amount sufficient to complete the procurement of a specified number of end items and advance procurement for approved pro-Full Funding Policy grams.
- which can delay program release and direction until well into the fiscal year, thus delaying the obligation of funds by the end of the fiscal year. Also, approved and funded programs are sometimes delayed/undirected beyond 30 September pending decision on an a. Delayed/Revised Program Release (\$1,013,2 million) - Adjustments in quantities or specifications of other equipment to meet changing situations or to exploit engineering improvement, generally require prior approval of reprogramming requests aspect of the program that has arisen requiring resolution before proceeding.
- b. Engineering Changes (\$364.0 million) Based on prior experience with systems of like nature and complexities, provision is made in procurement programs, as a percentage of the estimated cost of the item, to cover engineering improvements and design changes which will occur as a result of manufacturing experience or Air Force requirements. Engineering changes are not definitive requirements known in advance and they cannot be obligated until the change is authorized and directed. occur throughout the life of the production contract and result in unobligated balances.

FLICHT SIMULATOR PROCUREMENT PROGRAM (DOLLARS IN MILLIONS)

APPROPRIATION; Aircraft Procurement, Air Force

FY82	Amt	$\frac{1}{1}$ \$\frac{\\$11.4}{11.4}\$		42.8 22.1 - 64.9		$\frac{151.8}{8.6}$ $\frac{8.6}{160.4}$		\$236.7
7-1	Qtx	리		r - 1 r		2 12		
FY81	Amt			\$11.8 25.1 - 36.9		$\frac{110.1}{5.6}$ $\frac{5.6}{115.7}$		\$152.6
. ,	Qty			0 1 1 10		2/1 2/1		
FY80	Amt		\$20.0	11.0	0.8	97.8 6.4 104.2		\$137.2
E	Qt X		2 2	0 I I 0	디디	2 2		
뇞	Amt	69.8 69.8	60.5	58.2 14.1 72.3		73.2 6.4 79.6	09	\$282.2
FY79 & Pric	Qt.x	14 \$ 114	e) e	5 58.2 - 14.1 - 72.3		2 2		\$2
P-1 Line Item		24	4	9	41	40/41	40/41	
P Line					4	70	04	
Type		$\begin{array}{c} \mathtt{OFT} \\ \mathtt{WST} \ \underline{2}/ \\ \mathtt{TOTAL} \end{array}$	OFT TOTAL	OFT Added Cap $\frac{1}{2}$ WST $\frac{2}{2}$ TOTAL	AGPTT TOTAL	WST/OSMT SPARES TOTAL	PTT SPARES TOTAL	
Weapon System		<u>A-10</u>	F-15	F-16	F-106	B-52	EF-111	GRAND TOTAL

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FLIGHT SIMULATOR PROCUREMENT PROGRAM (DOLLARS IN MILLIONS)

APPROPRIATION: Aircraft Procurement, Air Force

Total Cost	Qty Amt	14 \$69.8 6 80.2 20 150.0	11 11 80.5	31 241.9 - 158.5 13 245.3 44 645.7	1 0.8	18/1 642.4 42.5 18/1 684.9	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$	\$1569.8
Cost To Complete	Qty Amt			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				\$211.7
FY85 T	Qty Amt Q			2 \$14.6 - 16.0 3 47.6 5 78.2				\$78.2
FY84	Qty Amt	3 \$42.2 3 42.2		3 23.4 - 17.2 2 34.0 5 74.6		$ \begin{array}{ccc} 4 & 115.3 \\ & 9.0 \\ \hline & 4 & 124.3 \end{array} $	61	\$241.1
FY85	Qty Amt	2 \$26.6 2 26.6		4 31.0 - 26.6 1 37.3 5 94.9		$\begin{array}{ccc} 3 & 94.2 \\ \hline 6.5 \\ \hline 3 & 100.7 \end{array}$	$\frac{1}{1} \frac{7.6}{7.9}$	\$230.1
P-l Line Item		2	4	1/ 6	41	40/41	40/41	
Type		$\begin{array}{c} \mathtt{OFT} \\ \mathtt{WST} \\ \mathtt{IOTAL} \end{array}$	OFT TOTAL	$\begin{array}{c} \text{OFT} \\ \text{Added} \\ \text{WST} \ \frac{2}{2} / \\ \text{TOTAL} \end{array}$	AGPTT TOTAL	WST/OSMT Spares TOTAL	PTT Spares TOTAL	14
Weapon		A-10	F-15	F-16	F-106	B-52	EF-111	TARCE STATE

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- Includes simulation capabilities for Electronic Warfare, Adaptive Training, Digital Radar Landmass, Limited Takeoff and Landing. 7
- These fund, procure Full Visual Capability only each WST consists of two OFTs linked with Visual Capability Equipment and Software. 7

Legend

MODIFICATION OF AIRCAAFT FY-P1 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

TAIL WARNING SYSTEM, PN-2923 MODIFICATION TITLE AND NO

B-52 G/H MODELS OF AIRCRAFT AFFECTED INSTALLATION OF ACTIVE RADAR SYSTEM TO PROVIDE DETECTION AND WARNING OF AIR-TO-AIR MISSILE THREATS AGAINST THE B-52. PROVIDES AUTOMATIC MANAGEMENT OF EXPENDABLE COUNTERMEASURES (INFRARED FLARES) USED 10 DECOY IR-SELKING MISSILES, B-52 CURRENTLY HAS DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM.												
	P. P.	PRIOR	F	FY-80	F	18-		FY-82	OUT	YEAR	F 0 1	A L
	QTY	QTY COST		QTY COST		OTY COST		QTY COST	ŲΤΥ	QTY COST	QTY	QTY COST
	1			1		į		!	1	-	-	1
	7 3	41.5		16.6		64 16.2		61 16.1	40	40 12.2	269	102.6
BASIS FOR COST ESTIMATE												
NONRECURRING	2	5.4									2	5.4
KITS	41	41 11.5	61	61 16.1 64 16.2 61 16.1 40 12.2	99	16.2	4	16.1	40	12.2	267	72.1
DATA		7.4		٠.								7.9
TRAINER		9.										9,
SUPPORT EQUIP.		16.6										16.6
	1	\$\$028 \$288 \$800\$ 4888 D\$400 \$\$TO B?\$25 0258 \$4552 \$854			1		1		-		1	
TOTAL	43	43 41.5 61 16.6 64 16.2 61 16.1 40 12.2	61	16.6	7 9	16.2	61	16.1	70	12.7	269	102.6
METHOD OF IMPLEMENTATION:		INSTALLATION - DEPCT/PDM LEAD TIME - 18 MONTHS	N N	EPCT/P	MQ SH							

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N.

MODITICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

ECM TRANSMITTER UPDATE, MN-2970 MODIFICATION TITLE AND NO.

B-52

MODELS OF AIRCRAFT AFFECTED: B-52 G/H

DESCRIPTION/JUSTIFICATION REPLACES TWO OBSOLETE ALT 6-B ECM TRANSMITTERS PER AIRCRAFT WITH CURRENT ALT-28 SYSTEMS, INCLUDING FREQUENCY COVERAGE IN EXISTING "GAP" AND ADDITION OF INCREASED MODULATOR PROGRAMMING CAPABILITY. THIS MODIFICATION IS REQUIRED TO PROVIDE INCREASED JAHMER POWER, FREQUENCY COVERAGE, AND TECHNIQUE PROGRAMMING AGAINST CURRENT RADAR THREAT ENVIRONMENT.

SCOPF OF PROGRAM:

SCUPE OF PROCKAM:													
	F.	PRIOR	FY	-80	FΥ	-81	FY.	-82	OUT	YEAR	TOT	, ·	
	QTY	QTY COST	QTY	COST	QTY	QTY COST QTY COST Q	OTY	QTY COST	QTY	QTY COST	OTY	QTY COST	
	-	!	!	!	1	\$! !	į	1	į	1			
	95	27.3	19	13.0	63	12.4	20	50 5.2			269	57.9	
BACIS FOR COST ESTIMATE												` `	
NOTRECURRING	-	3.4									-	ć	
KITS	76	α - C	14		4	73 63 76 60 60	ú				7 0	.	
DATA			5		2	?	2	716			897	8.05 0.08	
TRAINER												7.7	
SUPPORT FOILTP.												2.5	
WIT THEE		•		? !								2.8	
CIENT TUBES		7 . 7				4.9						14.0	
CIFS		1.7										1.7	
			!	-			!	-	!		!!!!!		
TOTAL	26	95 27.3 61 13.0 63 12.4 50 5.2	61	13.0	63	12.4	20	2.5			569	57.9	
METHOD OF IMPLEMENTATION		INSTALLATION - DEPOT/PDM	i - 103	POT/PE	ž								

79

INSTALLATION - DEPOT/PDM LEAD TIME - 15 MONTHS

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-SI APPROPRIATION AIRCRAIT FROCUREMENT. AIR FORCE

ECH POWER MANAGEMENT MN-2973 MODIFICATION TITLE AND NO

B-52 G/H MODELS OF AIRCRAFT AFFECTED

DESCRIPTION/JUSTIFICATION. THERE IS AN URGENT OPERATIONAL REQUIREMENT FOR IMPROVED CAPABILITY OF EXISTING B-52 G/H ALT-28 TRANSMITTER SYSTEM. INCREASED DENSITY AND SOPHISTICATION OF RADAR THREATS CAN SATURATE THE CURRENT EC. SYSTEMS IN THE B-52. POWER MANAGEMENT WILL SIGNIFICANTLY IMPROVE JAMMING EFFECTIVENESS BY PROVIDING AUTOMATIC AND RAPID THREAT RADAR FREQUENCY SET-ON AND INTITATION OF APPROPRIATE COUNTERMEASURES PROGRAMS.

SCOPE OF PROGRAM	PR	PRIOR	FY-	FY-80	FY.	FY-81		FY-82		OUTYEAR	TOTAL	A L
	95 95	QTY COST QTY COST 2TY COST QTY COST 	QTY 61	COST	3TY	COST 16.6	QTY 50	QTY COST 50 13.7	di di	QTY COST	269	9.86
BASIS FOR COST ESTIMATE											•	ć
NONRECURRING	94	.9 22.6 4.8	61	14.8	63	61 14.8 63 16.6 50 13.7	50	13.7			268	67.7 4.8
DAIA TRAINER SUPPORT EQUIP. CIPS		6.7 8.3 5.4		8.4				! !	!	8 1 0 1	1	13.1
TOTAL	95	95 48.7 61 19.6 63 16.6 50 13.7	61	19.6	63	16.6	20	13.7			269	98.6
METHOD OF IMPLEMENTATION	INSTA	INSTALLATION - DEPOT/PDM	1 i	EPOT/P	DM							

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCHAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO ALCM-CARRIER AIRCRAFT. MN-3022

CLASS V

B-52

MODELS OF AIRCRAFT AFFECTED: B-52G

DESCPIPTION/JUSTIFICATION PROVIDES THE B-52G AIRCRAFT WITH THE CAPABILITY TO CARRY AND LAUNCH THE LONG RANGE AIR LAUNCHED CRUISE MISSILE. PROVIDES FOR EXTERNAL AND INTERNAL CARRIAGE.

SCUPE OF PROGRAM												
	PR	PRIOR	Ę.	FY-80	FY	FY-81	Ŧ	-82	TUO	YEAR	٦ 0	r A L
	QTY	COST	QTY	COST	QTY	COST	OTY.	COST	QTY	COST	ίτΥ	OLY COST
	1	1	;	:	ł		!	1	1	; ;		-
	m	3 35.8	22	22 79.7	40	40 115.0	40,	114.0	68	40 114.0 68 534.5	173	879.0
BASIS FOR COST ESTIMATE.												
NONRECURRING				4.2		∞.		6.		2.1		8.0
TS	m	0.9	7.7	17.9	04	34.9		40 35.8	68	86.8	173	181.4
DATA		1.9		2.7		1.4				1.6		7.6
AINER				1.3								1.3
PPORT EQUIP.				1.8		2.3		1.6		2.7		8.4
OLING		23.1		18.6						42.0		83.7
PYLON		4.8		33.2		75.6		75.7		130.4		319.7
AUNCHERS										179.2		179.2
BOMB BAY (INT)										89.7		89.7
	1			-	!	!	1		1	-		1
DOTAL	6	35.8	22	79.7	07	115.0	07	3 35.8 22 79.7 40 115.0 40 114.0 68 534.5	68	534.5	173	879.0

ν,

METHOD OF IMPLEMENTATION INSTALLATION -- DEPOT/PDM LEAD TIME - 26 MONTHS

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

AVIONICS MODERNIZATION. MM-3023 MODIFICATION TITLE AND NO

CLASS V

B-52

MODELS OF AIRCRAFT AFFECTED . B-52 G/H

IPTION/JUSTIFICATION PRESENT BOMBING NAVIGATION SYSTEM WAS DFSIGNED USING 1950 TECHNOLOGY.
SYSTEM SUFFERS FROM LOW RELIABILITY HIGH SUPPORT COST AND INADEQUATE CAPABILITY THUS REDUCING.
WEADON SYSTEM EFFECTIVENESS. UPDATE REPLACES PRESENT ANALOG SYSTEM WITH A DIGITAL SYSTEM AND
STATE-OF-THE ART SENSORS AND SUBSYSTEMS. NEW SYSTEM IS REQUIRED TO MEET THE STRATEGIC BOMBER
MISSION REQUIREMENTS AND TO INTERFACE WITH THE INTRODUCTION OF CRUISE MISSILES ON THE B-52. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM

BASIS FOR COST ESTIMATE	PRIOR QTY COST	T OTY	FY-80 OTY COST	FY-81 QTY COST 64 239.4	FY QTY 	-82 COST 	0UJ QTY 1108	FY-82 OUTYEAR QTY COST QTY COST 61 199.1 108 347.8	T 0 QTY	T O T A L QTY COST 269 1169.0	
NONRECURRING KITS DATA TRAINER SUPPORT EQUIP.	9.3 5.27.3 5.5 1.5 6.0	31.0	44.8 95.8 33.0 46.0 103.8	16.2 64 180.5 5.0 13.3 24.4		22.0 61 164.9 1 1.4 10.8	98	23 7 288.5 1.7 16.8 17.1	269	116.0 757.0 46.6 77.6	
TOTAL	5 59.3 31	31	323.4	5 59.3 31 323.4 64 239.4 61 199.1 106 347.8	61 1	1.661	108	347.8	269	1169.0	
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT/PDM LEAD TIME - 24 MONTHS	ON - D ME - 2	EPOT/PD 4 MONTH	ΣS						•	

MODIFICATION OF AIRCRAFT

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO ODS/FRODS, MN-3041

MODELS OF AIRCRAFT AFFECTED: B-52G

IPTION/JUSTIFICATION THIS MODIFICATION SUPPORTS THE SALT II. B-52 BOMBERS CAPABLE OF LAUNCHING ALCM'S MUST BE IDENTIFIABLE FROM OVERHEAD FOR SALT II/MIRV COUNTING PURPOSES. THE MOD MUST BE COMPLETED AND FULLY INTECRATED INTO MOD/DELIVERY SCHEDULE FOR B-52G MODS FOR OFFENSIVE AVIONICS SYSTEM (OAS-MN3023) AND CRUISE MISSILE CARRIAGE (MN3022). IT MUST MEET THE SCHEDULE FOR FIRST DELIVERY OF MODIFIED B-52 AIRCRAFT FOR ALCM CARRIAGE. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM

.

BASIS FOR COST ESTLAMTE.	PRIOR QTY COS.	FY QTY 	-80 COST 28.8	FY QTY 40	-81 COST 10.0	OTY 40	-82 COST	00TY 0TY 	FY-80 FY-81 FY-82 OUTYEAR I QTY COST QTY COST QTY COST 24 28.8 40 10.0 40 5.7 69 7.8		T O T A L QTY COST 173 52.3
NONRECURRING KITS DATA TOOLING	i	24	20.0 3.0 .6 5.2	70	ων. φν.υ.υ.	40	5.7	69	20.0 3.9 24 3.0 40 5.5 40 5.7 69 7.8 .6 .3 5.2 .3	173	23.9 22.0 .9
TOTAL	24 28.8 40 17.0 40 5.7 69 7.8	24	28.8	0,7	24 28.8 40 17.0 40 5.7 69 7.8	40	5.7	69	7.8	173	i
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT/PDM	- DE	POT/PD	¥)		

LEAD TIME - 18 MONTHS

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT

AIR FORCE

DIGITAL BNS/INS MN-18411B MODIFICATION TITLE AND NO

B-52D MODELS OF AIRCRAFT AFFECTED

WITH A DIGITAL WITH DIGITAL BOMB/NAV COMPUTER AND A STANDARD PRECISION INERTIAL PLATFORM.
PRESENT RELIABILITY AND SUPPORTABILITY MAKE REPLACEMENT SYSTEN NECESSARY TO KEEP AIRCRAFT A
VIABLE ELEMENT OF THE STRATEGIC, FORCE. MANY LINE REPLACEABLF UNITS ARE NOT AVAILABLE DUE TO REPLACES CURRENT COMPUTER PORTION OF ASB-15 BOMBING/NAVIGATION SYSTEM DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM

TANOUNT TO TIME												
BASIS FOR COST ESTIMATE	PR QTY	PRIOR QTY COST Q 35 67.6	FY. QTY 	FY-80 QTY COST 44 42.1	FY. QTY	FY-81 QTY COST (FY QTY	FY-82 QTY COST	OUTY	OUTYEAR QTY COST	T O T QTY	T O T A L QTY COST
NONRECURRING KITS DATA TRAINER SUPPORT EQUIP.	34	1 17.0 34 36.8 7.2 .3		44 30.0 9 3 2 8		٠٠ د د د د د د د د د د د د د د د د د د د					78	17 0 66.8 7 2 13.6
TOTAL	35	35 67.6 44 42.1 5.0	44	42.1		5.0			!	!		10.1
METHOD OF IMPLEMENTATION	INSTA	INSTALLATION - DEPOT LEAD TIME - 18 MONTHS	1 DE	POT	ď						6	114.7

FY-81 PRUCKAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION: TITLE AND NO. MODERNIZE DEFENSIVE FIRE CONTROL MN-66136B

MODELS OF AIRCRAFT AFFECTED B-52H

DESCRIPTION/JUSTIFICATION THE FAILURE RATE OF THE ASG-21 FIRE CONTROL SYSTEM IS INCREASING RAPIDLY. AS WELL AS THE CONDEMNATION RATE OF THE COMPONENTS. THIS RESULTS IN HIGH LOGISTICS SUPPORT COSTS. THIS MODIFICATION WILL REDUCE THE NUMBER OF LINE REPLACEABLE UNITS. UPDATE THE 6YSTEMS TO CURRENT TECHNOLOGY AND PROVIDE LOGISTICALLY SUPPORTABLE SYSTEMS. THE IMPROVED PERFORMANCE WILL ENHANCE MISSION ACCOMPLISHMENT.

SCOPE OF PROGRAM.	PRIOR FY-80 QTY COST QTY COST (COST	FY- QTY 20	-80 COST 14.3	FY. QTY 76	FY-81 QTY COST Q 1 76 35.5	FY- QTY	FY-82 QTY COST	OUT	OUTYEAR QTY COST	T O T QTY	T O T A L QTY COST 96 51.9
BASIS FOR COST ESTIMATE												
KITS DATA			20	20 6.1 76 32.9 5.1	76	32.9					96	39.0 5.1
SUPPORT EQUIP.		2.1 3.1 2.6		3.1		2.6	!			!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	1	7.8
TOTAL		2.1	20	2.1 20 14.3 76 35.5	92	35.5					96	51.9

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/FIELD IFAD TIME - 22 MONTHS

AIRCRAFT FY-81 PROGRAM OF MODIFICATION

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

FUEL SAVINGS ADVISORY SYSTEM MODIFICATION TITLE AND NO

B-52 D/G/H MODELS OF AIRCRAFT AFFECTED RESERVES AND INCREASING FUEL COSTS DICTATE FUEL SAVINGS ADVISORY SYSTEM. DECLINING OIL RESERVES AND INCREASING FUEL COSTS DICTATE FUEL CONSERVATION TO THE MAXIMUM EXTENT POSSIBLE. ADDITIONAL OPERATIONAL ADVANTAGES WILL ACCRUE IN THAT DURING SIOP MISSIONS THE SYSTEM COULD PROVIDE AN ADDITIONAL 30 MINUTES OF POSITIVE CONTROL OR ALLOW THE BOMBER TO DESCEND TO LOW ALTITUDES 300 MILES EARLIER. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM

THE STATE OF TAXABLE												
	PR	PRIOR FY-80	FY.	-80		FY-81		FY-82	OUT	YEAR	TOT	AL
	QLY	QTY COST QTY COST	QTY	COST		QTY COST	QTY	OTY COST	QTY	QTY COST	QTY COST	COST
	!	!	i		!	1	!		!	1	1	
BASIS FOR COST ESTIMATE.					e	2.1	81	3 2.1 81 9.4	264	264 25.1	348	36.6
NONRECURRING					ო	3 2.1					ო	
KITS							81	6.3	797	6.3 264 25.1	345	31.4
DATA								1.5				
SUPPORT EQUIP.								1.6				1.6
	!						-		:			
TOTAL					ო	2.1	81	3 2.1 81 9.4 264 25.1	264	25.1	348	36.6
METHOD OF IMPLEMENTATION		INSTALLATION - DEPOT/PDM LEAD TIME - 12 MONTHS	N - DE	POT/PI	WC SF							

MODIFICATION OF AIRCRAFT

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FY-81 PROGRAM FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO

AUTOMATIC FLICHT CONTROL SYSTEM (AFCS) MN-18420B

CLASS IV

B-52

B-52D MODELS OF AIRCRAFT AFFECTED

AND RELIABILITY BY ADDING A DUAL PITCH CHANNEL AND REPLACING THE MAIN AMPLIFIER, SERVO CONTROL AND STEERING COUPLER WITH ONE SOLID STATE LINE REPLACEBLE UNIT. IT ALSO REPLACES THE COMMAND BOX. IT REPLACES THE N-I COMPASS SYSTEM WITH A NEW ATTITUDE HEADING AND REFERENCE SYSTEM. SYSTEM RELIABILITY IS DECREASING AND THE PITCH AXIS PRESENTS A SAFETY HAZARD IN LOW LEVEL AND PROVIDES FOR SENERAL IMPROVEMENT IN B-52D AFCS MAINTAINABILITY SAFETY DFSCRIPTION/JUSTIFICATION

SCOPE, OF PROGRAM

T O T A L QTY COST 78 39.8	78 32.1 3.7 1 0	78
FY-82 OUTYEAR QTY COST QTY COST 16 14.0 62 25.8	16 6.3 62 25.8 3.7 1.0	16 14 0 62 25.8
2 E 2	62	62
FY-82 7TY COST	6.3 1.0	14 0
F 07Y	16	16
PRIOR FY-80 FY-81 OTY COST OTY COST		INSTALLATION - DEPOT/PDM
BASIS FOR COST ESTIMATE	KITS · DATA TRAINER SUPPORT EQUIP.	TOTAL. METHOD OF IMPLEMENTATION

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. X BAND TRANSISTOR ASSY. MN-18246B

CLASS IV

F-106 MODELS OF AIRCRAFT AFFECTED

SYSTEM. THE PRESENT RADAR RECEIVER HAS A LOW RELIABILITY AND A PARAMETRIC AMPLIFIER WHICH IS OBSOLETE AND BECOMING LOGISTICALLY UNSUPPORTABLE. THE LOGISTICS SUPPORT COST OF THE PRESENT RECEIVER IS \$2.6 MILLION PER YEAR. THE NEW RECEIVER WHICH CONSISTS OF AN X BAND TRANSISTOR AND ASSEMBLY WILL REDUCE THE ANNUAL SUPPORT COST TO ONE THIRD OF THE CURRENT COST. THE LOW RELIABILITY OF THE PRESENT RADAR RECEIVER CAUSES F-106 MISSION DEGRADATION. DESCRIPTION/JUSTIFICATION INCORPORATES A NEW RADAR RECEIVER INTO THE MA-1/ASQ-25 FIRE CONTROL

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PROGRAM
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METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT LEAD TIME - 12 MONTHS

MODIFICATION OF AIRCRAFT FY-81 PROCRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO RADAR UPGRADE/MODERNIZATION (RUMM), MN-18245B

CLASS IV

MODELS OF AIRCRAFT AFFECTED F-106A/B

DESCRIPTION/JUSTIFICATION THIS MODIFICATION WILL REPLACF 41 UNITS OF THE MA-1/ASQ-25 RADAR SUBSYSTEM WHICH WERE DESIGNED IN THE 19508 AND WHICH HAVE A LOW RELIABILITY OF 2.39 HOURS MEAN-TIME-BETWEEN-FAILURES (MTBF). THE TECHNOLOGY DEVELOPED FOR THE F-14, F-15 AND F-18 AIRCRAFT AVIONICS MAKE IT POSSIBLE TO SIGNIFICANTLY IMPROVE THE RELIABILITY OF THE RADAR ANTENNA TRANSMITTER, VIDEO PROCESSING AND DISPLAYS. THE NEW RADAR DESIGN USING THIS TECHNOLOGY WILL HAVE A FIELD MTHF OF 50 HOURS.

SCOPE OF PROGRAM	PRIOR QTY COST	FY-80 QTY COST	ST QTY	FY-81 QTY COST	FY- QTY	FY-82 OUTYEAR 7TY COST QTY COST 	OUT QTY 169	SST QTY COST QTY COST	OTAL OTY COST 214 137.	A L COST 	
BASIS FOR COST ESTIMATE											
NONRECURRING KITS DATA					4 11 9 41 20 0 169 95 1.0 3	11 9 20 0 1.0	169	95.2 3.8	210	115.2	
SUPPORT EQUIP.	7.9		1		45	45 32.9 169 104.9	169	104.9	214	•	
METHOD OF IMPLEMENTATION	INSTALLATION - DFPOT/FIELD TEAM 1FAD TIME - 15 MONTHS	N - DFPO	T/FIELI ONTHS) TEAM							

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO CHAFF/FLARE DISPENSER, MN-2981

MODELS OF AIRCRAFT AFFECTED A-7D

DESCRIPTION/JUSTIFICATION INSTALLS THE ALE-40 CHAFF/FLARE DISPENSER SYSTEM FOR A SELF-PROTECTION COUNTERMEASURE CAPABILITY AGAINST BOTH RADAR DIRECTED AND INFRARED GUIDED THREATS. THIS SYSTEM ALLOWS FOR SUCCFSSFUL DECOY OR OTHERWISE COUNTERING INTERFERENCE TO THE PRIMARY MISSION OF THE AIRCRAFT. THE EMPLOYMENT OF HOSTILE FORCES SEVERELY IMPACTS THE SURVIVABILITY OF TACTICAL AIRCRAFT OPERATING IN A COMBAT ENVIRONMENT. THE USAF A-7

SCOPE OF PROGRAM	ă	PRIOR		FY-80	FY	FY-81	74	FY-82	TUO	YEAR	T 0 T	7 A
	OTY	OTY COST		QTY COST		QTY COST	OTY.	QTY COST	QTY	QTY COST	QTY	QTY COST
	:	!	1	1	!	1	1		ļ	1	1	1
	161	8.5	72	8.5 72 2.1	96	96 3.0					359	13.6
BASIS FOR COST ESTINATE												
NONRECHBRING	-	1.5									-	1.5
SLIX	190	190 5.1 72 2.1 96 3.0	72	2.1	96	3.0					358	10.2
DATA		œ										œ.
TRAINFR		œ										œ
SUPPORT EQUIP.		3										e.
	1	99556 8888 49580 4814 02:084 5360 53618 5757 53588 4254	1		1		1	1			-	
TOTAL	191	191 8.5 72 2.1 96 3.0	72	2.1	96	3.0					359	13.6
NETHOD OF INPLEMENTATION	INSTA	INSTALLATION - DEPOT	1 (EPOT 1 MONT	9							

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 PROGRAM

MODIFICATION TITLE AND NO TF-41 HP TURBINE, MN-47816B

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

CLASS IV

A-7

MODELS OF AIRCRAFT AFFECTED: A-7D(TF-41 ENGINE)

DESCRIPTION/JUSTIFICATION THE TF-41 HAS HAD SERIOUS PROBLEMS WITH FAILURES IN THE HOT SECTION, IN MANY CASES DIRECTLY RELATED TO THE SECOND-STAGE HIGH PRESSURE TURBINE BLADE. NUMEROUS FAILURES HAVE RESULTED IN A SAFETY-OF-FLIGHT PROBLEM AND GROUNDING OF AIRCRAFT WHILE THE ENGINE WAS FORCED INTO THE OVERHAUL LINE. THIS MODIFICATION PROVIDES A LONG TERM CORRECTION FOR THE HIGH PRESSURE TURBINE FAILURES.

SCOPE OF PROGRAM	PR]	PRIOR FY-80 FY-81 FY-82 OUTYEAR QTY COST QTY COS	FY- QTY 30	FY-80 QTY COST	FY. OTY	FY-81 FY-82 QTY COST QTY COST COST COST COST COST COST COST COST	FY. QTY 134	FY-82 OUTYEAR QTY COST QTY COST	00TY QTY 304	OUTYEAR QTY COST	T 0 7	TOTAL QTY COST
BASIS FOR COST ESTIMATE												
NONRECURRING KITS DATA	30	30 2.5 30 3.3 67 3.8 134 7.5 304 17.0	30	a. * .	67	3.8	134	7.5	304	17.0	565	34.1
TOTAL	30	30 3.3 30 3.3 67 3.8 134 7.5 304 17.0	30	3.3	67	3.8	134	7.5	304	17.0	265	34.9
METHOD OF IMPLEMENTATION	INSTA	INSTALLATION - DEPOT LEAD TIME - 9 MONTHS	[Q]	EPOT 9 MUNT	HS							

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

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FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

DIGITAL SCAN CONVERTER, MN-68045B MODIFICATION TITLE AND NO

MODELS OF AIRCRAFT AFFECTED A-7D

DESCRIPTION/JUSTIFICATION MODIFICATION WILL REPLACE TWO LINE REPLACEABLE UNITS (LRU) WITH THE DIGITAL SCAN CONVERTER. THE AN/APQ-126 RADAR DISPLAY SUB-GROUP INSTALLED IN A-7D AIRCRAFT IS EXPERIENCING A LOW MEAN TIME BETWEEN FAILURE (MTBF) RELIABILITY OF 80 HOURS. THE COMBINED MTBF OF THE PROPOSED DIGITAL SCAN CONVERTER GROUP IS 500 HOURS BASED ON MORE THAN TWO YEARS OF FLYING IN AN OPERATIONAL ENVIRONMENT.

TOTAL OTY COST 359 19.3		359 15.2 4.	Ì	
				359
FY-81 FY-82 OUTYEAR QTY COST QTY COST 80 6.5 192 8.5 87 4.3		80 3.2 192 7.7 87 4.3 .4		80 6.5 192 8.5 87 4.3
OUT QTY 		87	i	87
-82 COST		7.7	œ.	8.5
FY. QTY 192		192		192
-81 COST		3.2	2.4	6.5
FY.		80		8
FY-80 QTY COST Q				
FY QTY				
PRIOR QTY COST				
PR QTY				!
SCOPE OF PROGRAM	BASIS FOR COST ESTIMATE	رن م	TRAINER SUPPORT EOUIP.	AL
SCOF	BAS	KIT!	TRA	TOTAL

1

INSTALLATION - ORG/INTERMEDIATE LEAD TIME - 10 MONTHS METHOD OF IMPLEMENTATION

FY-81 APPROPRIATION AIRCRAFT PROCURFYENT AIR FORCE,

HODIFICATION TITLE AND NO AMPLIFIEP REPLACEMENT MM-48846B

MODELS OF AIRCRAFT AFFECTED A-7 TF-41

PETION/JUSTIFICATION NEW DESIGN AMPLIFIER TO REPLACE EXISTING CAPACITOR. WHICH HAS A DETRIMENTAL FAILURE HISTORY OF 965 FAILURFS INCLUDING ONE AIRCRAFT LOSS AND 4 INFLIGHT EMFRGENCIFS. NEW DESIGN INCORPORATES INTEGRATED PRINTED CIRCULTRY WITH THE FOLLOWING ADVANTAGES 1. 10% REDUCTION IN NEW COST. 2. 50% REDUCTION IN REPAIR LABOR. 3. NO PARTS OBSOLESENCE. 4. 16% FEWER PARTS. 5. PRECISION CONTROL OF EXGINE LIMITS DESCRIPTION/JUSTIFICATION

SCOPE OF PROCRAM

	PR	PRIOR		FY-80		FY-81		FY-82	DOUT	YEAR	TOT	r A L	
	ΩŢΫ	OTY COST	OTY	OTY COST		QTY COST	Ϋ́	TKOO YIY	QTY	QTY COST	ÓΓΥ	OTY COST	
	!	1	-	1	i	-	1	1		-			
BASIS FOR COST ESTIMATE							209	209 4.2 326	326	6.0	535	10.2	
KITS DATA SUPPORT EQUIP. TOOLING							20%	e * . *	3.9 326 * .3	0.9	535	9. * . *	
TOTAL	:	209 4.2 326 6.0					209	209 4.2 326 6.0	326	6.0	535	10.2	
METHOD OF IMPLEMENTATION	INSTA	INSTALLATION - DEPOT	i z	POT									

OF INPLEMENTATION INSTALLATION - DEPOT

LFAD TIME - 11 MONTHS

CLASS V

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-31 APPROPRIATION AIRCRAFT PROCUREMENT; AIR FORCE

MODIFICATION TITLE AND NO INERTIAL NAVIGATION SYSTEM (INS)

MODELS OF AIRCRAFT AFF&CTED A-10

DESCRIPTION/JUSTIFICATION INS WILL PROVIDE AN AUTONOMOUS NAVIGATION CAPABILITY. LOW LEV'S TACTICS IMPOSED BY COMBAT ENVIRONMENT PRECLUDES RELIANCE ON EXTERNAL NAVIGATIONAL AIDS. EUROPEAN TERRAIN AND WEATHER DICTATE AUTONO": OUS CAPABILITY IN TACTICAL SITUATIONS. A-10 NAVIGATION REQUIREMENT DOCUMENTED IN OPERATIONAL EVALUATIONS.

T O T A L QTY COST 415 108.1	6.5 97.6 2.4 1.6	108.1	
T O T QTY 415	1 414	415	
OUTYEAR OTY COST	1 6.5 21 4.8 120 26.8 120 28.2 153 37.8 2	22 15.3 120 26.8 120 28.2 153 37.8	
OUT OTY 153	153	153	
FY-80 FY-81 FY-82 OUTYEAR QIY COST QIY COST OTY COST 22 15.3 120 26.8 120 28.2 153 37.8	28.2	28.2	
FY. QTY 120	120	120	
FY-81 QIY COST 120 26-8	26.8	26.8	TEAM
FY-81 QTY COST 120 26-8	120	120	TELD
FY-80 QIY COST 22 15.3	6.5	15.3	INSTALLATION - DEPOT/FIELD TEAM LEAD 11ME - 15 MONTHS
FY- QIY 	21	22	N - D
PRIOR QTY COST		į	LLATIC AD 1 IN
PRI QTY		; !	
SCOPE OF PROG. M	BASIS FOR COST ESTINATE: NONRECURRINC KITS DATA	SUPPORT EQUIP. TOTAL	METHOD OF IM" SMENTALION

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT

APU FUEL CONTROL NN-29018B MODIFICATION TITLE AND NO

A-10 MODELS OF AIRCRAFT AFFECTED SYSTEM HAS EXHIBITED SEVERE TR-SERVICE RELIABILITY PROBLEMS RELATING TO DIAPHRAGM FAILURES, PUMP SHAFT FAILURES, GOVERNOR INSTABILITY AND AIR PUMP SHAFT FAILURES, GOVERNOR INSTABILITY AND AIR PUMP FAILURES. WOULD ALSO PROVIDE IMPROVED TEMPERATURE CONTROL DUPING STAPL FLIMINATE THE STARTER AIR PUMP ASSEMBLY, AND WILL PROVIDE A AVAILABLE. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM:

	PRIOR FY-80 OTY COST QTY COST	Ò		FY- OTY	FY-82 OTY COST	our	OUTYEAR OTY COST	TOT	TOTAL	
BASIS FOR COST ESTIMATE		538 4.6						528	4.6	
NONRECURRING,			7.						-	
DATA		538	¢.3 *					538	4.3	
SUPPORT EQUIP. TOOLING			* .2						k ~ 4	
TOTAL	7 7 065	7 7 865	i		-		-	1	:	
		on o	0					238	4.6	
MEIHOD OF IMPLEMENTATION	INSTALLATION - ORG/INTFRMEDIATE LEAD TIME - 24 MONTHS	INTFRMEDIA1 ONTHS	ы							

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO STABILITY AUGMENTATION SYSTEM (SAS) MN-38505B

MODELS OF AIRCRAFT AFFECTED A-10

DESCRIPTION/JUSTIFICATION PILOTS HAVE REPORTED THAT WITH THE PRESENT SAS IT IS EXTREMELY DIFFICULT TO MAKE ACCURATE AZIMUTH CORRECTIONS IN ORDER TO REFINE LATERAL PIPPER PLACEMENTS DURING WEAPONS DELIVERY. SLOW, SMOOTH INPUTS HELP TO ALLEVIATE THIS PROBLEM. BUT THIS REQUIRES LONGER TARGET TRACKING TIMES WHICH ADVERSELY IMPACT VULNERABILITY UNDER COMBAT CONDITIONS. AN IMPROVED SAS DESIGN HAS BEEN SUCCESSFULLY FLIGHT TESTED AND IS EFFECTIVE FOR CONTINUED WFAPON DELIVERY CAPABILITY AND MISSION EFFECTIVENESS. RETROFIT OF THIS CHANGE IS MANDATORY.

	5.9		, 2 , 5 . 1	. s.	5.9
	194		194		194
OUTYEAR QTY COST					73 2.7 75 2.0 46 1.2
FY-82 TY COST (73 2.7 75 2.0 46 1.2		1.2		1.2
FY	97		46		46
FY-81 TY COST	2.0		2.0		2.0
FY QTY	75		75		75
FY-80 QTY COST	2.7		.2 73 1.9 75 2.0 46 1.2	v.	73 2.7 75 2.0 46 1.2
FY	73		73		73
OR COST					
PR QTY	:				!
SCOPE OF PROGRAM		BASIS FOR COST ESTIMATE:	NONRECURRING KITS	TRAINER SUPPORT EQUIP.	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT LEAD TIME - 22 MONTHS

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIPCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO TACTICAL ELECTRONIC RECONNAISSANCE, MN-2707

F/RF-4 CLASS V

MODELS OF AIRCRAFT AFFECTED: RF-4C

DESCRIPTION/JUSTIFICATION INSTAILS THE AN/ALQ-125 TEREC IN RF-4C AIRCRAFT. THIS MODIFICATION WILL PROVIDE A SYSTEM OF SENSORS, RECEIVERS AND PROCFSSORS WHICH WILL DETECT IDENTIFY. LOCATE AND RECORD INFORMATION PERTAINING TO EMANATIONS OF GROUND BASED EMITTERS. IT ALSO PROVIDES INTERFACE FOR POSITIONAL DATA FROM AN/ARN-101 DIGITAL AVIONICS SYSTEM.

SCOPE OF PROGRAM

	PRIOR			FY-81	FY	-82	OUT	YEAR	T 0 T	7 Y	
	QTY COST	QTY COST		QTY COST	QTY	OTY COST	QTY	QTY COST	OTY	COST	
	7 77 81				1	-	-				
BASIS . COST ESTIMATE				٠.٧ ر					18	53.9	
NONRECURRING	1 3.9								•	,	
KITS	17 2/ 1								-	ر. د و	
DATA	1.47 /1								17	24.1	
SUPPORT FOILTP.	0 5			,						5.0	
TOOLING	5.7			9.5						19.8	
)	1.1									1.1	
TOTAL					!	-	!		1	*	
	13 44.4			9.5					18	53.9	
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT	N - DEPOT									
	LEAD TIM	LEAD TIME - 24 MONTHS	THS								

F/RF-4 CLASS V

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

والمجارة والأنافية والمؤلفة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمؤلفة والمحاجمة والمحاجمة

FY-81 APPROPRIATION AIRCRAFT PROGUREMENT AIR FORCE

MODIFICATION TITLE AND NO ALR-69 RWR UPDATE (COMPASS TIE) MN-3052

F-4E MODELS OF AIRCRAFT AFFECTED. UPCRADES THE ALR-46 RADAR WARNING RECEIVER (RWR) TO PROVIDE AN IMPROV-DESCRIPTION/JUSTIFICATION ED CAPABILITY TO DETICT

T O T A L QTY COST 512 94.3		1.0	19.4	94.3
T 0 1		512	1	512
OUTYEAR QTY COST 		52.0	4.5	58.0
		369		369
FY-82 QTY COST 		15.7 369	5.4	21.1
FY QTY 115		115		115
FY-81 QTY COST 28 4.7		1.0		4.7
		28		28
FY-80 QTY COST		•	9.5	10.5 28 4.7 115 21.1 369 58.0
FY QTY				!
PRIOR QTY COST				
AT OT T				ļ
SCOPE OF PROGRAM	BASIS FOR COST ESTIMATE:	MONKECURRING KITS	DATA SUTPORT EQUIP.	TOTAL

METHOD OF IMPLEMENTATION · INSTALLATION - DEPOT LEAD TIME - 21 MONTHS

83

\$ "\.

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. PARKHILL TAC SECURE VOICE

F/RF-4 CLASS V

MODELS OF AIRCRAFT AFFECTED: RF-4

DESCRIPTION/JUSTIFICATION PARKHILL SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF HF NARROW BAND FREQUENCY RANGES UP TO THE SECRET LEVEL. THE TSEC/KY-75 IS DESIGNED FOR OPERATION IN ALL AIRCRAFT APPLICATIONS.

T O T A 1. QTY COST 321 • 7.9		1.1 6.1 .7	7.9	
T 0 1		1 320	321	
OUTYEAR QTY COST		4.1	4.1	
OUTYFAR QTY COS		210	210	
FY-81 FY-82 OUTYEAR QTY COST QTY COST QTY COST QTY COST 37 2.5 . 74 1.3 210 4.1		1 1.1 74 1.3 210 4.1	37 2.5 74 1.3 210 4.1	
FY- OTY		14	74	
-81 COST		1.1	2.5	
0.		36	37	HS
FY-80 QTY COST				ITALLATION - DEPOT LEAD TIME - 24 MONTHS
ĊΙ				N - D
PRIOR QTY COST			•	INSTATLATION - DEPOT LEAD TIME - 24 MON
PRI QTY				INSTA
SCOPE OF PROGRAM	BASIS FOR COST ESTIMATE	NONRECURRING KITS DATA	TOOLING	NETHOD OF IMPLEMENTATION

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58

C

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

MODIFICATION TITLE AND NO. VINSON TAC SECURE VOICE

MODELS OF AIRCRAFT AFFECTED: F/RF-4

DESCRIPTION/JUSTIFICATIO: VINSON SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF VHF/UHF
AM/FM HALF-DUPLFY RADIO FOR ALL CLASSIFICATION OF TRAFFIC. THE TSEC/KY-58 IS DESIGNED FOR OPFRATION IN AIRCRAFT INSTRUMENT PANELS OR RADIO+CONSOLE CONTROL PANELS, OR IT MAY BE LOCATED IN EQUIPMENT BAYS AND OPERATED BY A REMOTE CONTROL UNIT (RCU).

T O T A L QTY COST 1600 11.4	-	1599 11.1 1.		1600 11.4	
OUTYEAR QTY COST 		4.3	!	4.3	
OUT QTY 410		410	1	410	
FY-81 FY-82 OUTYEAR QTY COST QTY COST QTY COST		1 .1 .998 4.9 191 1.9 410 4.3 .1	!	999 5.2 191 1.9 410 4.3	
FY. QTY 		191		191	
FT-81 QTY COST (999 5.2	•	4.9 .1	-	5.2	TEAM
FT- QTY 999		1 998		666	TELD
FY-80 QTY COST				1	EPOT/F
FY.					N H
PRIOR QTY COST					INSTALLATION - DEPOT/FIELD TEAM LEAD TIME - 24 MONTHS
PR QTY					INST/
SCOPE OF PROGRAM	BASIS FOR COST ESTIMATE:	NONRECURING KITS PATA	TOOLING	TOTAL	METHOD OF "MPLEMENTATION.

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

MODIFICATION TILLE AND NO APQ-120 ALTITUDE LINE IMPV. MN-16509B

F/RF-4 CLASS IV

MODELS OF AIRCRAFT AFFECTED F-4E/G

ACQUISITION MODE AND AN IMPROVED FEEDHOKN IN THE APQ FIRE CONTROL SYSTEM WITH GREATLY IMPROVED ACQUISITION MODE AND AN IMPROVED FEEDHOKN IN THE APQ FIRE CONTROL SYSTEM WITH GREATLY IMPROVED ACQUISITION TIMES IN THE NORMAL BURESIGHT ACQUISITION MODE, IMPROVED SYSTEM PERFORMANCE IN THE CLUTTER ENVIRONMENT AND ENHANCED TRACKING IN THE VICINITY OF THE ALTITUDE LINE. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAMS	PR	PRIOR	F.Y.	FY-80	H.	FY-81	FY	FY-82	TUO	YEAR	T 0 T	A L
	QTY	QTY COST	QTY	Qry cost	QTY		QTY	OTY COST		QTY COST	QTY	QTY COST
		1	1	1	1	1	1		i	!!!	1	1 1 1
	640	640 8.6				2.5					940	11.1
BASIS FOR COST ESTIMATE												
KITS	049	7.9									049	7.9
DATA		.2				.7						6.
SUPPORT EQUIP.		٥.				1.0						1.5
SIMULATOR MODS						æ.						œ.
	1		!		-		1					
TOTAL	640	9.8 049				2.5					940	11.1
METHOD OF IMPLEMENTATION	INSTA	INSTALLATION - DEPOT LEAD TIME - 10 MONTHS	E - DE	POT MONTI	HS							

MODIFICATION OF AIRCRAFT FY-81 PYOGRAM

WING FOLD RIB, MN-16529B MODIFICATION TITLE AND NO

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODELS OF AIRCRAFT AFFECTED: F/RF-4

DESCRIPTION/JUSTIFICATION THIS MODIFICATION INCORPORATES A FATIGUE IMPROVEMENT TO THE WING BY REPLACING THE INNER WINGFOLD RIB WITH AN IMPROVED RIB, AND COLD WORKING FASTENER HOLES IN LOWER TORQUE BOX SKIN. THIS MODIFICATION IS THE RESULT OF STRUCTURAL FATIGUE TESTING AND SERVICE REVEALED DEFICIENCIES.

SCOPE OF PROGRAM

SCUPE OF PROCKAM													
	PR QTY	PRIOR QTY COST	FY- QTY	FY-80 QTY CUSI	FY- QTY	FY-80 FY-81 FY CUS1 QTY COST Q	_	FY-82 QTY COST (OUT	OUTYEAR QTY COST	T O OTY	TOTAL	
BASIS FOR COST ESTIMATE.	1303	1303 17.8 257 4.9 183 3.6	257	4.9	183	3.6		-	1	i	1743	26.3	
NONRECURRING KITS DATA	1:02 16:1 257 4.6 183 · 3.4	16.1	257	9.4	183	3.4					11742	.,	
TOOLING		1.5		۴.		.2						2.0	
TOTAL	1303	1303 17.8 257 4.9 183 3.6	257	4.9	183	3.6	!		!		1743	26.3	
METHOD OF IMPLEMENTATION.		INSTALLATION - DEPOT/FIELD TEAM LEAD TIME - 17 MONTHS	1 - DE 3 - 17	POT/FI	ELD T	EAh							

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MODIFICATION OF AIRCRAFT FY-R1 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

40DIFICATION TITLE AND NO DIGITAL SCAN CONVERTER (D) MN-18501B

MODELS OF AIRCRAFT AFFECTED. F-4D

IPTION/JUSTIFICATION THIS DIGITAL DISPLAY SYSTEM PROVIDES AIRCREWS A MORE DETAILED PICTURE WITH A PEQUIREMENT FOR ONLY ONE CONTRAST/BRIGHTNESS SETTING. THE DIGITIAL SCAN CONVERTER GROUP AILOWS OPERATION WITH A HIGHER GAIN SETTING RESULTING IN A LONGER RANGE DETECTION IN THE AIR WODE. THE MEAN TIME BETWEEN FAILURE (NTBF) OF THE PRESENT F-4D SCAN CONVERTER IS 7 HOURS WHILF THE DSCG INCREASES RELIABILITY TO A 200 HOUR MTBF. DESCRIPTION/JUSTIFICATION

T O T A L QTY COST 16.6	1 1.0		2.4	667	
FY-82 OUTYEAR QTY COST QTY COST				4	
PRIOR FY-80 FY-81 QTY COST QTY COST QTY COST 59 5.2 129 8.0 47 3.4	•	1 1.0 58 3.0 129 6.7 47 . 2.4	.2 .30	59 5.2 129 6.0 47 3.4	INSTALLATION - FIELD LEAD TIME - 12 MONTHS
SCOPE OF PROGRAM:	BASIS FOR COST ESTIMATE	NONRECURRING KITS	DATA TRAINER SUPPORT EQUIP	TOTAL	METHOD OF IMPLEMENTATION

A Committee of Landbloom and the

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO INERTIAL NAVIGATION SYSTEM, MN-19501B

CLASS IV

MODELS OF AIRCRAFT AFFECTED. F-4G

IPTION/JUSTIFICATION THE OPERATIONAL READINESS OF THE F-4G IS DEGRADED BY LOW RELIAVILITY (17 HOURS MEAN TIME BETWEEN FAILURE) OF THE PRESENT INERTIAL NAVIGATION ATTACK SYSTEM.
REPLACEMENT WITH THE AN/ARN-101 DIGITAL AVIONICS INERTIAL NAVIGATION AND WEAPON DELIVERY SYSTEM WILL ENHANCE OPERATIONAL CAPABILITIES THROUGH INCREASED RELIABILITY (105 HOURS MTBF), MAINTAINABILITY AND WEAPON SYSTEM AVAILABILITY. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM												
	£.	PRIOR	FY	-80	FY	-81	FY	-82	OUT	YEAR	TOF	r A L
	QTY	ory cost	QTY	QTY COST Q	QTY	QTY COST (QTY	QTY COST	QT.	QTY COST	QTY	QTY COST
	1		!	!	-	-	1		1	!	****	!
			7	13.3	23	7.2	9	30.6	31	13.6	116	64.7
BASIS FOR COST ESTIMATE												
NONRECURRING			-	11.6							-	
LITS			-	1 .5 23 6.	23	8.9	9	20.2	31	31 11.4	115	
DATA				.7				3.4				4.1
TRAINER								4.5		7.5		6.7
SUPPORT EQUIP.				ů.		7.		.4 2.5				3.4
	-		-		-		-				-	
TOTAL		2 13.3 23 7.2 60 30.6 31 13.6	7	13.3	23	7.2	09	30.6	31	13.6	116	64.7

METHOD OF IMPLEMENTATION INSTALLATION - DEPOT/FIELD TEAM LEAD TIME - 18 MONTHS

F/RF-4 CLASS IV

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO REPLACE FIRE/OVERHEAT ELEMENTS. MN-59147A

MODELS OF AIRCRAFT AFFECTED. F/RF-4

DESCRIPTION/JUSTIFICATION REPLACES THE PRESENT FEWWAL ENGINE BAY FIRE/OVFRHEAT ELECTRICAL SENSING ELEMENTS. PRESENT CONTROL AND AIRCRAFT WIRING TO ENGINE BAY WILL BE UTILIZED. PRESENT SYSTEM GIVES A 11GH RATE OF FALSE FIRE/OVERHEAT INDICATION.

SCOPE OF PROGRAM									•	•
	PRIOR		FY-80 FY-81 FY-82	Y-81	FY	-82		OUTYEAR	TOTAL	
	OTY COST	C	ST OTY	COST	QTY	COST	ÇŢŸ	COST	QTY	
					!		ļ			
			006	900 7.2 801 7.2	801	7.2			1701	14.4
BASIS FOR COST ESTIMATE										
ONT GETT BETT OF				*						*
GUNKECUKKING KITS			006	900 7.2 801	801	7.1			1701	14.3
DATA				*						* '
TRAINER										·
TOTAL	900 7.2 801 7.2	 	006	900 7.2 801 7.2	801	7.2			1701	1701 14.4
METHOD OF IMPLEMENTATION	INSTALLATION - ORG/INTERMEDIATE LEAD TIME - 9 MONTHS	ON - ORG/	INTERME	DIATE						

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO CORRECT AN/APX-81 INTERROGATION, MA-69051B

F/RF-4 CLASS IV

MODELS OF AIRCRAFT AFFECTED . F-4E

DESCRIPTION/JUSTIFICATION THE AN/APX-81 PROVIDES A CAPABILITY TO

OF THE RECEIVER/TRANSMITTER (RT)-961A PORTION OF THE AN/APX-81 IS REQUIRED TO CORRECT AN OPERATIONAL DEFICIENCY,

SCOPE OF PROGRAM:											
	PRIOR		FY-80 FY-81	ΕŸ		FY	FY-82 OUTYEAR	OUT	YEAR	0	r A L
	QTY COST	QTY	QTY COST		QTY COST	8	QTY COST (QTY	QTY COST	ĆΤΥ	
	1		1			!	1	[1111	1	
				159	159 2.5					159	159 2.5
BASIS FOR COST ESTIMATE											
0 H12				150	159 2.4					159	2.4
CITA				1	,						
DATA					- :						7
	#		:	1			11111		4 1 1 1		
TOTAL				159	159 2.5					159	2.5
METHOD OF IMPLEMENTATION	INSTALLATION - ORG/INTERMEDIATE	O - NC	RG/INT	ERMED	IATE						
	LEAD TIME - 12 MONTHS	Æ - 1	2 MONT	HS							

MODIFICATION OF AIRCRAFT

FY-81 PROCRAH

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

CBU-15 CARRIAGE NODIFICATION TITLE, AND NO

F-4E PODELS OF AIRCRAFT AFFECTFD IPTION/JUSTIFICAT*** PROVIDES CAPABILITY FOR AN RF LINK WITH GBU-15 WEAPON FROM LAUNCH TO IMPACT INPROVE JULAR ERROR OF FROBABILITY (CEP) AND ENHANCES AIRCRAFT SURVIVABILITY ON HARNESSES PER AIRCRAFT. DESCRIPTION/JUSTIFICAT***

SCOPE OF PROGRAM

	PRIOR QTY COST	FY-80 OTY COST	-81 COST		-82 COST	OUT	OUTYEAR QTY COST	1. 0 ' QTY	1' O T A L QTY COST	
BASIS FOR COST ESTIMATE	; ! ! !	:	 	100	100 7.0 72 4 0	72	0 7	172	11.0	
K1TS DATA				100	4.0	72	100 4.0 72 3.0	172	7.0	
SUPPORT FQUIP.					1.8		1.0		2.8	
TOTAL		100 7.0 72 4.0		100	100 7.0 72 4.0	72	4.0		172 11.0	
HETHOD OF IMPLEMENTATION: INSTALLATION - OBC (TAMEBARETEEN	TNSTALLATIO									

INSTALLATION - ORG/INTERMEDIATE LEAD TIME - 12 MONTHS

FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

ALR-56 RWR UPDATE. MN-3010 MODIFICATION TITLE AND NO

F-15 MODELS OF AIRCRAFT AFFECTED

DESCRIPTION/JUSTIFICATION THE CURRENT ALR-56 WAS DESIGNED TO THE RADAR THREAT ENVIRONMENT AS IT EXISTED AT THE TIME THE HARDWARE WAS DESIGNED. THE TRENENDOUS THREAT PROLIFERATION EXPERIENCED SINCE THEN HAS CAUSED THE EQUIPMENT TO BECOME OPERATIONALLY DEFICIENT. THIS WILL UPDATE THE ALR-56 RADAR WARNING RECEIVER TO THE CURRENT THREAT.

SCOPE OF PROGRAM.	PRIOR QTY COST	FY QTY 196	COST QTY COST QTY COST QTY COST 1.8 196 4.2 312 6.4 132 2.9	FY. QTY 312	-81 COST 	FY QTY 132	FY-82 QTY COST 132 2.9	CTY YTY	OUTYEAR QTY COST	T O T A L QYY COST 640 15.3	A L COST 15.3
BASIS FOR COST ESTIMATE.											1.2
NONRECURRINC KITS	1.0	196	3.6	.2 3.6 312 .4	6.4	132	6.4 132 2.9			640	12.9
TRAINER SUPPORT EQUIP.	8				1	!					. !
TOTAL	1.8	196	1.8 196 4.2 312 6.4 132 2.9	312	4.9	132	2.9			640	640 15.3
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT/FIELD TEAM TIME - 15 MONTHS		DEPOT/I	FIELD	TEAN						

MODIFICATION OF PIRCRAFT FY-81 PROCRAM

FY-81 APPROPRIATION AIXCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO. PROGRAMMABLE SIGNAL PROCESSOR (PSP) 11N-3018

MODELS OF AIRCRAFT AFFECTED F-15 C/D

DESCRIPTION/JUSTIFICATION APG-63 RADAR REQUIRES MULTI-TARCET DISCRIMINATION/ RAID SIZE ESTIMATION WHILE IN THE TARGET TRACK MODE. SUBSTITUTION OF A PSP FOR THE CURRENT "HARDWIRED" SIGNAL PROCESSOR PERMITS IMPLEMENTATION OF A SEARCH WHILE TRACK/FXPAND MODE TO ENABLE THE PILOT TO DETERMINE AT BEYOND VISUAL RANCE THE NUMBER/LOCATION OF MULTIPLE HOSTILE AIRCRAFT IN THE VICINITY OF THE TARGET. THIS INFLUENCES THE TYPE OF ATTACK TO BE EMPLOYED. FUTURE CHANGES CAN BE MADE BY SOFTWARE VICE HARDWARF.

SCOPE OF PROGRAM											i	
	F. P.	PRIOR	7	FY-80	•	FY-81	FY	FY-82	00.7	OUTYEAR OTY COST	T 0 T	T O T A L
	11)	3	1	1000 110		1000						
	22	22 14.3 16 4.9 52 16.3	16	4.9	52	16.3					90	
BASIS FOR COST ESTIMATE.	l i											
NONBECTIBRING	1.6	1.6										
	21	0.9	16	6.4	52	٤ 91					6à	27.2
DATA		-:										••
SUPPORT EQUIP.		9.9										9.9
	-	<u> </u>	1 1 1			1	!	1 1 1 1	1	!!!	1	
TOTAL	22	22 14.3 16 4.9 52 16.3	16	4.9	52	16.3					06	35.5
METHOD OF IMPLEMENTATION	INSTA	INSTALLATION - DEPOT	1	EPOT								

LEAD TIME - 23 MONTHS

FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

UHF/VHF RADIOS/TACAN, MN-68118B MODIFICATION TITLE AND NO

MODELS OF AIRCRAFT AFFECTED: F-15

DESCRIPTION/JUSTIFICATION: UPDATED UHF/VHF/TACAN COMMUNICATIONS EQUIPMENT AND VINSON TACTICAL SECURE VOICE EQUIPMENT ARE BEING INSTALLED ON THE PRODUCTION LINE FOR THE F-15C/D AIRCRAFT. THIS NCDIFICATION IS REQUIRED TO STANDARDIZE THE F-15 AIRCRAFT. THE F-15 INTEGRATED COMMUNICATIONS CONTROL PANEL (ICCP) MAKES ACCOMPLISHING ALL COMMUNICATION MODIFICATIONS AT ONE TIME MANDATORY.

SCOPE OF PROGRAM:												
	PR	PRIOR		-80	FY	-81	FY	FY-80 FY-81 FY-82	OUT	YEAR	T 0 1	AL
	QTY	QTY COST	QTY	QTY COST	QTY	QTY COST	QTY	QTY COST	QTY	QTY COST	QTY	QTY COST
	į	1	!		•		!		i	!	1	1
					110	11.7	114	110 11.7 114 10.6 425 14.7	425	14.7	679	37.0
BASIS FOR COST ESTIMATE.												
NONRECURRING						2.0		9.				2.6
KITS					110	9.6	114	110 9.6 114 10.0 425 14.7	425	14.7	679	34.3
TRAINER						-:						
	-	***** **** **** **** **** **** **** ****	-		-	1	1 1	1 1 1 1			1	!
TOTAL					110	11.7	114	110 11.7 114 10.6 425 14.7	425	14.7	649	37.0
METHOD OF IMPLEMENTATION:	INSTA	INSTALLATION - DEPOT	Q 1 X	EPOT								
	E	LEAD TIME - 21 MONTHS	E - 2	1 MONT	HS							

UPDATE

F-15

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. UPDATE MODIFICATIONS

MODELS OF AIPCRAFT AFFECTED: F/TF-15

DESCRIPTION/JUSTIFICATION AIRCRAFT REQUIRE UPDATE TO CORRECT DEFICIENCIES REVEALED DURING
DEVELOPMENT AND INITIAL OPERATIONAL USE. CORRECTIONS ARE INCORPORATED IN PRODUCTION AT THE
EARLIEST TIME. UPDATE MODS ARE REQUIRED TO MAINTAIN CONFIGURATION CONTROL OF DELIVERED
AIRCRAFT AND THOSE TOO FAR INTO PRODUCTION FOR INCORPORATION. THE REQUIREMENTS LISTED ARE
KNOWN PROBLEMS AND ARE REPRESENTATIVE OF THE TOTAL HODIFICATIONS ANTICIPATED.

SCOPE OF PROGRAM.	PRIOR QTY COST	FY-80 QTY COST C	FY-81 QTY COST	FY-82 QTY COST	OUTYEAR QTY COST	T O OTY	TOTAL OTY COST
BASIS FOR COST ESTIMATE							
OTKER		73.4	62.0	25.7	 	i ! ! !	319.9
TOTAL	158.8	73.4	62 0	25.7	158.8 73.4 62 0 25.7		319.9

7-15 REPRESENTATIVE UPDATE MODIFICATIONS

STAGNATES. "REMOTE" LOCATION OF THE SPLITTER, THE CORE COMPRESSOR "SEES" THE FAN STALL AND IT, IN TURN, STALLS AND THE PROXIMATE SPLITTER WILL REDUCE THE TENDENCY OF THE CORE COMPRESSOR TO "SEE" FAN STALLS. THUS, CORE THE PRESENT DESIGN DUE TO AUGMENTOR PRESSURE PULSES TO BE TRANSMITTED FORWARD THROUGH THE FAN DUCT AND CAUSE FAN STALLS. THE SPLITTER IS A PORTION OF THE ENGINE WHICH SPLITS FAN AIRFLOW INTO TWO STREAMS. STALLS DUE TO AUGMENTOR PROBLEMS ARE REDUCED.

LIGHT-OFF DETECTOR (LOD)

ING AUGMENTOR FUEL FLOW UNTIL AN AUGMENTOR LIGHT IS ACHIEVED. THE LOD SYSTEM CONSISTS OF AN ULTRA VIOLET SENSOR AND POWER/SIGNAL CONDITIONING UNIT MOUNTED ON THE AUGMENTOR DUCT WHICH VIEWS THE FLAME THROUGH A LINER PORT. INCORPORATION OF THIS SYSTEM WILL SIGNIFICANTLY REDUCE AUGMENTOR INITIATED STALLS AND, CONSEQUENTLY, ENGINE STAGNATIONS. A LOD PROGRAM WAS INITIATED TO DEVELOP A SYSTEM CAPABLE OF OPTICALLY SENSING AUGMENTOR FLAME AND HOLDING OR RETARD-

ENGINE FILTRATION SYSTEM
PRESENT ENGINE FUEL FILTRATION IS NOT ADEQUATE TO PREVENT MAIN FUEL PUMP (MFP) DAMAGE FROM FOREIGN OBJECTS OR
UNIFIED FUEL CONTROL (UPC) SERVO "HANG UPS" FROM CONTAMINATION, FOREIGN OBJECT DAMAGE TO THE MFP CAN CAUSE AN
ENGINE INFLIGHT SHUTDOWN. SERVO VALVE HANG UPS IN THE UFC CAN CAUSE MOMENTARY SCHEDULE EXCURSION WHICH COULD RESULT IN STALLS AND STAGNATIONS. AN ENGINE MOUNTED FILTER UPSTREAM OF THE MFP VANE STAGE, FINER WASH AND AST CHANCE SERVO FILTER WILL SUBSTANTIALLY REDUCE THESE OCCURRENCES

IMPROVED AUGMENTOR OPERATION

MAJORITY OF THE STALL/STAGNATION INCIDENTS OCCUR DURING AUGMENTATION. MORE THAN HALF OF THE REPORTED INCIDENTS INCONSISTENT AUGMENTOR OPERATION HAS BEEN EXPERIENCED DURING ACCEPTANCE TESTING. APPROXIMATELY 28% OF THE ENGINES FLOWN AT MCAIR REQUIRE MAINTENANCE ACTION TO CLEAR INFLIGHT AUGMENTOR ANOMALIES. OPERATIONALLY, THE MODIFICATIONS TO THE FLAMEHOLDER TO IMPROVE RUMBLE TOLERANCE ARE BEING DEVELOPED TO CORRECT THIS CONDITION ARE INDUCED

REDUCING THE STATION TIME FOF LOADING AND STORING TEST PROGRAM REVISIONS. STATION MODIFICATIONS BEING INVESTIGATED CHANGING TEST STATION LRU ASSIGNMENTS, PROVIDING ALTERNATE TESTING CAPABILITY FOR MISSION CRITICAL LRUS, AND AVIONICS INTERMEDIATE SHOP (AIS) WORKLOAD/STATION ENHANCEMENTS
OPERATIONAL EXPERIENCE WITH THE AIS HAS SHOWN THAT THE STATION WORKLOAD IS TOO HIGH FOR THE TIME AVAILABLE. STATION HARDWARE/SOFTWARE IS BEING INVESTIGATED FOR METHODS TO IMPROVE THE WORKLOADING PROFILE, INCLUDING INCLUDE A CHANGE TO MAGNETIC DISK (IN LIEU OF TAPF) STORAGE.

TITE TESTABILITY/WORKLOAD IMPROVEMENTS

TEST PROGRAMS/PROCEDURES SUPPORTING 25 F-15 TEWS LINE REPLACEABLE UNITS (LRU) AND PLUG-IN MODULE ASSEMBLIES (PIMAS)
ARE UNDERGOING EXTENSIVE FIELD USAGE. THIS EXPERIENCE IS IDENTIFYING AREAS WHERE IMPROVEMENTS TO BOTH SOFTWARE AND HARDWARE ARE REQUIRED TO CORRECT FAULT ISOLATION ANOMOLIES, OPTIMIZE TEST TIMES, AND ENHANCE TEST STATION PERFORMANCE AND MAINTAINABILITY IN MARGINAL AREAS. CLASS IV

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

ENGINE DIAGNOSTICS MODIFICATION TITLE AND NO

F-15(F-100 ENGINES) MODELS OF AIRCRAFT AFFECTE!

DESCRIPTION/JUSTIFICATION PROVIDES AN ON-BOARD ENCINE DIAGNOSTIC CAPARILITY TO ENHANCE ENCINE TRIM EVENT DETECTION AND TROUBLESHOOTING AND HISTORICAL DATA COLLECTION FOR HEALTH TRENDING. THIS CAPABILITY IS REQUIRED TO FULLY IMPLEMENT THE ON-CONDITION MAINTENANCE CONCEFT FOR THE MODULAR F-100 ENGINE.

SCOPE OF PROCRAM	PRIOR QTY COST	FY-80 QTY COST	-80 COST	FY- QTY	81 COST	ÇTY 72	FY-82 QTY COST 72 18.6	OUTYEAR QTY COST	E 1 06	T 0 T QTY 652	T 0 T A L QTY COST
BASIS FOR COST ESITABLE						72	18.6	580	72 18.6 580 176.8	652	195.4
TOTAL	72 18.6 580 176.8					72	72 18.6 580 176.8	580	176.8	652	652 195 4
METHOD OF IMPLEMENTATION · INSTALLATION - DEPOT LEAD TIME - 12 MON'	INSTALLATION - DEPOT LEAD TIME - 12 MONTHS	N - DI	POT 2 MONT	SH.							

OF AIRCKAFT MODIFICATION

FY-81 PROGRAM

AIR FORCE FY-81 APPOPRIATION AIRCRAF! PROCUREMFNT

UPDATE MODIFICATIONS MODIFICATION 1511. AND NO

UPDATE

F-16

F-16 MODELS OF AIRCRAFT AFFECTED PEVELOPMENT AND INITIAL USE. CORRECTIONS ARE INCORPORATED IN PRODUCTION AT THE EARLIEST TIME. UPDATE MODS ARE REQUIRED TO HAINTAIN CONFIGURATION CONTROL OF DELIVERED AIRCRAFT AND THOSE TOO FAR INTO PRODUCTION FOR INCORPORATION REQUIREMENTS LISTED ARE KNOWN PROBLEMS AND ARE REPRESENTATIVE OF THE TOTAL MODIFICATIONS ANTICIPATED. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM												
	PP	PP 10R	Ϋ́	-80	FΫ́	-81	FY	-82 ~	OUT	YEAR	T 0	TAL
	QTY	QTY COST	CLY	CIY COST	QTY	QTY COST	QTY	COST	QTY	QTY COST QTY COST	QTY	QTY COST
	i	:	!	4		1	1	1	1			1 1 1
		14.0		30.0		40.6		70.0		208.4		363.0
BASIS FOR COST ESTIMATE												
OTHER		14.0		30.0		9.07		70.0		208.4		363.0
	!	ı			!				-		1	
TOTAL		14.0		30.0		40.6		0.0		7.807		363.0

F-16 REPRESENTATIVE UPDATE MODIFICATIONS

HEADS-UP DISPLAY UPDATE UPDATE THE HEADS-UP DISPLAY (HUD) TO PROVIDE NECESSARY AIM-9L CUEING FOR DEFINING PROPER LAUNCH CRITERIA. CHANGES WILL ALSO PROVIDE A PROGRAMMABLE MEMORY CAPABILITY TO CORRECT OTHER MINOR DEFICIENCIES.

WEAPONS PYLON COMPATIBILITY WITH NATO WEAPONS CURRENT WEAPONS PYLON DOES NOT COMPLY WITH NATO STANDARD REGARDING LOCATION OF THE WEAPON ELECTRICAL CONNECTOR. MODIFICATION WILL UPDATE PYLON TO CARRY FULL FAMILY OF CURRENT AND FUTURE NATO WEAPONS ON THE PARENT FYLON.

DEPARTURE WARNING SYSTEM INSTALL AN AURAL TONE WARNING SYMPEM TO ALERT THE PILOT WHEN HE IS ENTERING FLIGHT CONDITIONS WHICH COULD RESULT IN THE AIRCRAFT DEPARTING CONTROLLEP FLIGHT AND POSSIBLE SPIN OR AIRCRAFT LOSS.

ENGINE RELATED MODIFICATIONS
A SUBSTANTIAL NUMBER OF CHANGES TO THE ENGINE WILL BE ACCOMPLISHED TO REDUCE SUSCEPTABILITY TO STALL/STAGNATION, IMPROVE RELIABILITY AND REDUCE FAILURES,

LIMITED DISPLACEMENT CONTROLLER REPLACE TIE ISOMETRIC CON ROLLER FOR THE FLIGHT CONTROL STICK WITH A LIMITED DISPLACEMENT CONTROLLER. CHANGE WILL IMPROVE FLYING QUALITIES AND REDUCE PILOT PATIGUE.

AUDIT F-1 A SIMULATED AIRCRAFT MAINTENANCE TRAINER
THE SIMULATED AIRCRAFT MAINTENANCE TRAINER DESIGN IS BASELINED TO THE PHYSICAL CONFIGURATION
TAIL #7). THE TRAINER MUST BE UPDATED TO REFLECT THE CONFIGURATION OF AIRCRAFT ASSIGNED TO

CHANGE WILL PRECHECK REFUEL VALVES THORPORATE A PRECHECK REFUEL VALVE IN THE FUEL SYSTEM TO MINIMIZE RISK OF FUEL SPILLS. ALLOW SAFE REFUELING DURING QUICK TURNAROUND OPERATIONS WITH THE ENGINE RUNNING.

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

PY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

ENGINE DIAGNOSTICS MODIFICATION TITLE AND NO

MODELS OF AIRCRAFT AFFECTED: F-16

DESCRIPTION/JUSTIFICATION PROVIDES AN ON-BOARD ENGINE DIAGNOSTIC CAPABILITY TO ENHANCE ENGINE TRIM EVENT DETECTION AND TROUBLESHOOTING AND HISTORICAL DATA COLLECTION FOR HEALTH TRENDING. THIS CAPABILITY IS REQUIRED TO FULLY IMPLEMENT THE ON-CONDITION MAINTENANCE CONCEPT FOR THE MODELAR F-100 ENGINE.

SCOPE OF PROGRAM

BASIS FOR COST ESTIMATE.	PRICK QTY, COST	FY-80 QTY COST	.80 COST		FY-81 QTY COST	FY OTY 240	FY-82 OTY COST	0UTY QTY 240	OUTYEAR QTY COST	T 0 QTY 480	T O T A L QTY COST
KITS TOTAL		!		; ; ;		240	240 19.7 240 20.2	240 20.2	20.2	780	39.9
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT LEAD TIME - 12 MONTHS	N - DE	POT MONTH	<u>8</u>		240	240 89.7 240 20.2	240	20.2	480	480 39.9

MODIFICATION OF AIRCRAFT

FY-81 PROCRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

IMPROVED FCM/ALQ-137, MN-2960 MODIFICATION TITLE AND NO

CLASS V

F-111

MODELS OF AIRCRAFT AFFECTED FB-111

THE CURRENT ECM SYSTEM IS FREQUENCY LIMITED TO DESCRIPTION / JUSTIFICATION

SCOPE OF PROGRAM.	P. P.	PRIOR	E E	FY-80	FY.	FY-81	7.	FY-82 OTY COST	OUT	OUTYEAR OTY COST	TOTAL	A L COST
	3 8	30 51.1	7 7	22 22.9 13 13.5	13	13.5	;				65	87.5
BASIS FOR COST ESTINATE		•										
Cara Biolianica	-	2.1										2.7
FONECURKING KITS	29	29 30.2	22	22 22.9 13 13.5	13	13.5					64	9.99
FATA		7.0										. "
TRAIMER		ņ										· v
SUPPORT EQUIP.		9.6										, v
TOTING		. .3										
		**************************************	3								5.5	87.5
TOTAL	30	30 51.1 22 22.9 13 13.3	7.7	6.77	2	13.3					}	
METHOD OF INPLEMENTATION:	INS	INSTALLATION - DEPOT LEAD TIME - 12 MONTHS	7 1 2	EPOT 2 MONT	HS							

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

PY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. PAVE TACK/GUIDED MUNITIONS, MN-3013

MODELS OF AIRCRAFT AFFECTED: F-111F

DESCRIPTION/JUSTIFICATION FULLY INTEGRATES THE PAVE TACK POD WITH FORWARD LOOKING INFRARED AND LASER RANGER/DESIGNATOR, AND WITH THE F-111 NAVIGATION/ATTACK SYSTEM.

SCOPE OF PROGRAM.	æ	PRIOR	FY	FY-80	FY	FY-81	FY	FY-82	TUO	OUTYEAR	TOTAL	A L
	QTY 		QTY	QTY COST	QTY	QTY COST	QTY	QTY COST	QTY	COST	QTY 95	COST 94.4
BASIS FOR COST ESTIMATE.	•	: !										
NONRECURRING KITS DATA TRAINER SUPPORT EQUIP.	33	1 7.1 33 23.3 34 25.1 27 16.7 6.7 1.1 5.9 6.0 2.5	34	34 25.1 27 16.7 6.0	27	16.7	1 1				94	65.1 65.1 6.7 1.1 11.9 2.5
TOTAL METHOD OF IMPLEMENTATION	34 INSTA	34 46.6 34 31.1 27 16.7 INSTALLATION - DEPOT 1.EAD TIME - 15 MONTHS	34 1 D	31.1 POT MONT	27 HS	16.					Ç	7

MODIFICATION OF AIRCRAFT

REPLACE CONVERTER MULTIPLEXER. MN-16308B MODIFICATION TITLE AND NO

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

FB/F-111 D/F MODELS OF AIRCRAFT AFFECTED

DESCRIPTION/JUSTIFICATION THIS NEW CONVERTER MULTIPLEXER HAS BEEN DESIGNED WITH CURRENT STATE—OF—THE—ART ELECTRONICS. A WIRE—WRAPPED MOTHER BOARD REPLACES THE OLD FLEXPRINT CABLE AND HOUSING ASSEMBLY. HIGH DENSITY PACKACING HAS REDUCED THE CARD COUNT FROM 60 TO 17 AND PARTS FROM 7000 TO 3600. THE UNIT IS BUILT TO THE ORIGINAL CONVERTER SPECIFICATION AND IS COMPLETELY INTERCHANGEABLE WITH THE PRESENT CONVERTER. MEAN TIME BETWEEN FAILURE SHOULD IMPROVE FROM 28 HOURS TO 383 HOURS.

SCOPE OF PROGRAM:	PRIOR FY-80 QTY: COST QTY COST 93 18.6	FY.	-81 COST Q	FY-8 QTY CO	-82 C COST QT	OUTYEAR QTY COST	T O T A L QTY COST 248 50.	A L COST 50.2
BASIS FOR COST ESTIMATE: NONRECURRING KITS	6 5.2 87 8.9	1.5 44 5.6 111 14.9 1.0 1.0	1.5	= =	4.9		6 242	6.7 29.4 4.2
DATA TRAINER SUPPORT EQUIP.	2.0 2.0 93 18.6 44 12.4 111 19.2	4.1 3.3 4.1 19.2	4.1	13	3.3 19.2		248	9.4
TOTAL METHOD OF IMPLEMENTATION	INSTALLATION - ORG/FIELD FAD TIME - 12 MONTHS	FIELD						

F-111

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

AIR FORCE FY-81 APPROPRIATION AIRCRAFT PROCUREMENT

MODIFICATION TITLE AND NO. REDESIGN ELECTRONIC PROCESSOR UNIT (EPU) - APQ-130, MN-18317C

MODELS OF AIRCRAFT AFFECTED: F-111

DESCRIPTION/JUSTIFICATION THE EPU CONSISTS OF 32 CIRCUIT BOARDS CONTAINING 275 MICROCIRCUITS AND A TOTAL OF 7715 PIECE PARTS. REDESIGN WOULD REPLACE THE MICROCIRCUITS WITH OFF-THE-SHELF SOLID STATE DF.1CES REDUCE NUMBER OF CARDS TO 20 AND REDUCE TOTAL PARTS COUNT TO 1200. A LSO, A NEW BUILT-'N TEST CAPABILITY WILL 3E INCORPORATED TO PROVINE IMPROVED FLIGHT LINE ISOLATION TO ALL APQ-130 LRU'S AND REDUCE REMOVAL RATE.

TOTAL.	1 2.8	80 7.5	9.	81 11.4	
OUTYEAR QTY COST		2.7	1	2.7	
00TY QTY 25		25		25	
.82 COST 5.9		55 4.8 25 2.7	. 4	1 2.8 55 5.9 25 2.7	
FY- QTY 55		55		. 25	
FY-81 QTY COST 		1 2.8		2.8	LATE
FY-81 QTY COST		-		-	ERMED! 'HS
.80 COST				1 2.8 55 5.9 25 2.7	INSTALLATION - ORG/INTERMEDIATE LEAD TIME - 24 MONTHS
FY-				!	- N
PRIOR QTY COST					LLATIC
PRI QTY					INSTA
SCOPE OF PROGRAM:	BASIS FOR COST ESTIMATE	NONRECURRING KITS	DATA SIDDOUT FOILTP.	TOTAL	METHOD OF IMPLEMENTATION

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO: IMPROVED DIFFUSER CASE MN-18414B

MODELS OF AIRCRAFT AFFECTED: F-111 TF30-P3/7/9/100

DESCRIPTION/JUSTIFICATION: IMPROVED CASES ARE REQUIRED TO ELIMINATE CRACKING AROUND THE PT4 AND TT4 BOSSES WHICH CAN CAUSE ENGINE FAILURE AND POSSIBLE LOSS OF AIRCRAFT. NO REPAIR PROCEDURES ARE AVAILABLE FOR THE REFAIR OF CASES PRESENTLY IN USE.

T O T A L QTY COST 1129 68.7	•		68.7
T 0 QTY		1129	1129
OUTYEAR QTY COST		21.3 739 45.3	30 2.1 360 21.3 739 45.3
OUT OTY 739		739	739
FY-82 QTY COST 360 21.3		21.3	21.3
FY. QTY 360		.5 1.5 360 2	360
FY-81 QTY COST		 1.5	2.1
FY- QTY 30		30	i
FY-83 QTY COST			!
PRIOR QTY COST			
SCOPE OF PROGRAM:	BASIS FOR COST ESTIMATE	NONRECURRING KITS	TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT LEAD "IME - 12 MONTHS

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

GENERAL PURPOSE COMPUTER MN-19304B MODIFICATION TITLE AND NO

CLASS IV

F-111

FB/F-111D/F MODELS OF AIRCRAFT AFFECTED

DESCRIPTION/JUSTIFICATION THIS MODIFICATION WILL REPLACE THE EXISTING UNRELIABLE GENERAL PURPOSE COMPUTER WITH A NEW STATE OF THE ART COMPUTER TO INCREASE MEAN TIME BETWEEN FAILURE AND REDUCE LOGISTICS SUPPORT COST.

SCOPE OF PROGRAM .

T O T A L QTY COST	3 2.6 236 28.2 3.6	239 43.5	
OUTYEAR TY COST 03 18.0	03 13.2	03 18.0	
FY-82 7TY COST Q 33 21.8 1	133 15.0 103 13.2 2.5 .3	33 21.8 1	
FY-81 FY-82 OUTYEAR JTY COST QTY COST 3 3.7 133 21.8 103 18.0	3 2.6	3 3.7 133 21.8 103 18.0	SI
FY-An QTY			TALLATION - ORG LEAD TIME - 14 MONTHS
PRIOR QTY COST		# # # # # # # # # # # # # # # # # # #	INSTALLATION - ORG LEAD TIME - 14 N
BASIS FOR COST ESTIMATE	NONRECURING KITS DATA TRAINER SUPPORT EQUIP.	TOTAL	METHOD OF IMPLEMENTATION

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

MODIFICATION TITLE AND NO. FUEL TANK SHIELDING MN-37274A

CLÁSS IV

F-111

F/F3-111 AIRCRAFT MODELS OF AIRCRAFT AFFECTED DESCRIPTION/JUSTIFICATION: THIS MODIFICATION INSTALLS SHIELDS ON THOSE AREAS OF THE F-1:1 FUEL TANK SYSTEM WHICH ARE SUBJECT TO PENETRATION BY HIGH ENERGY FRAGMENTS GENERATED IN THE EVENT OF A FAN BLADE OR COMPRESSOR DISK FAILURE. THE FAILURE OF A FAN BLADE OR COMPRESSOR DISK POSES A HIGH PROBABILITY OF A FUEL TANK PUNCTURE, WITH A SUBSEQUENT DANGER OF FIRE AND POSSIBLE

SCOPE OF PROGRAM:											:	,
	PR	PRIOR	FΫ́	FY-80		FY-81	ΕŸ	FY-82	OUT	(EAR	TOT	7
	QTY	QTY COST	ΩŢ	OTY COST	QTY	QTY COST	QTY	QTY COST	QΤΥ	qry cost	OTY COST	COST
	-	1	!	1	!	!	į		ţ	!	1	1 1
	88	88 8.1 152 9.2	152	9.5	118	118 7.3 53 3.3	53	3.3			411	27.9
BASIS FOR COST ESTIMATE:							•					
CNIGHIORANON	2	2.0									2	
KITS	86	86 5.1 152	152	9.5	118	9.2 118 7.3 53 3.3	53	3.3			607	
DATA		۴.										m.
TRAINER		-:										·.
TOOLING		9.										0.
	1		1			-			!			
TOTAL	88	88 8.1 152 9.2 118 7.3 53 3.3	152	9.5	118	7.3	23	3.3			411	27.9
METHOD OF IMPLEMENTATION.		INSTALLATION - DEPOT/FIELD TEAM LEAD TIME - 21 MONTHS	E 1 D	EPOT/F 1 MONT	IELD .	FEAM						

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO: CREW MODULE HARNESS INPV MN-38012A

CLASS IV

F-111

MODELS OF AIRCRAFT AFFECTED F-111

DESCRIPTION/JUSTIFICATION MODIFICATION REDESIGNS HEADREST AND INERTIA REEL STRAP ROUTING WILL ALLEVIATE PRINAL INJURY PROBLEMS EXPERIENCED BY MANY CREW MEMBERS DURING EJECTION FROM THE F-111 AIRCRAFT.

SCOPE OF PROGRAM:												
	PR		FY.	-80	FY	-81	FY	-82	OUT	YEAR	TOI	7 Y
	QTY.	QTY. COST	QT.Y	COST	QTY	OTY COST OTY COST	QTY	QTY COST C	QTY	QTY COST	QTY	QTY COST
	į		!	!	1	-	1	!	1	!!!	1	1
			210	2.7	213	2.7					423	5.4
BASIS FOR COST ESTIMATE												
KITS DATA			210	210 2.6 213 2.7	213	2.7					423	5.3
	!							***** **** **** **** **** ****	!			
TOTAL			210	210 2.7 213 2.7	213	2.7					423	5 4
				•								

METHOD OF IMPLEMENTATION INSTALLATION - ORG/FIELD LEAD TIME - 9 MONTHS

ATION OF AIRCRAFT FY-81 PROGRAM MODIFICATION

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. RFDESIGN COMPRESSOR DISK/HUB. MN-48839A

F-111(TF-30 ENGINE) MODELS OF AIRCRAFT AFFECTED.

ELIMINATE STRFET LEVELS THAT CONTRIBUTE TO COMPONENT FAILURE. THE NEED FOR REDESIGN WAS IDENTIFIED WHEN SIX DISKS IN AIR FORCE TF-30 ENGINES DEVELOPED CRACKS IN THE BLADE RETAINING SLOTS. SLOTS. SUBSEQUENT EDDY CURRENT SAMPLING INSPECTION OF TWENTY-SEVEN DISKS IN THE REPAIR LINE REVEALED FIVE ADDITIONAL CRACKS. FAILURE OF THE BLADE RETAINING LUG WILL RELEASE A MINIMUM OF TWO COMPLETE FIRST STAGE FAN BLADES AND THE ENGINE CASE CANNOT CONTAIN A FAILURE OF THIS MACN:TUDE. THIS REDESIGN WAS INITIATED TO PRECLUDE FURTHER FAILURES OF THIS NATURE. DESCRIPTION/JUSTIFICATION: MODIFICATION PROVIDES A REDESIGN OF THE FIRST STAGE COMPRESSOR DISK TO

SCOPE OF PROGRAM

	PR	PRIOR	F.Y.	FY-80	FΫ́	FY-81	F	FY-82	OUT	(EAR	T 0	- V
	۲۲	OTY COST (QTY 	COST	QTY	COST	QT.Y	QTY COST QTY COST QTY COST	QTY	QTY COST	QTY	QTY COST
BASIS FOR COST ESTIMATE;	244	1.4	363	2.4	311	2.5	303	5.6			1166	8.9
KITS Data	244	244 1.4 308 2.4 311 2.5 303 2.6	308	2.4	311	2.5	303	2.6			1166	8.8
FOTAL	244	244 1.4 308 2.4 311 2.5 303 2.6	308	2.4	311	2.5	303	2.6		1	1166	1166 8.9
METHOD OF IMPLEMENTATION	INSTAI LEA	INSTALLATION - DEPOT LEAD TIME - 12 MONTHS	1 - DE	POT MONT!	SE							

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FY-51 PRUCKAM

HODIFICATION TITLE AND NO: TACTICAL SUPPORT AIRCRAFT (EW), MN-3015

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

ET-111 CLASS V

MODELS OF AIRCRAFT AFFECTED: EF-111A

DESCRIPTION/JUSTIFICATION THIS MODIFICATION

ELECTRONIC COUNTER COUNTERMEASURE TRAINING OF AIR DEFENSE FORCES ON A WORLDWIDE BASIS IN PEACETIME.

SCOPE OF PROGRAM							
	PRIOR	FY-80	FY-81	FY-82	OUTYEAR	TOI	. A L
	OTY COST	TY COST	QTY COS'	QTY COST	QTY COST	QTY	QTY COST
			1	-		# 1	1
	6 175.4	3 102.8	12 238.5	12 237.4	9 178.8	. 42	932.9
BASIS FOR COST ESTIMATE							
NONRECURRING	19.9						19.9
KITS	6 113.7	3 89.8	12 168.2	12 231.1	9 178.8	42	781.6
DATA	23.6	4.0	21.2				8.87
TRAINER	4.	4.0	12.9				17.3
SUPPORT EQUIP.	17.8	5.0	36.2	5.0 36.2 6.3			65.3
	##### 18 15 ##### ##### ##### ***** ***** ***** *****						
TOTAL	6 175.4	3 102.8	12 238.5	6 175.4 3 102.8 12 238.5 12 237.4 9 178.8	9 178.8	42	932.9
METHOD OF INPLEMENTATION	INSTALLATION - CONTRACTOR LEAD TIME - 12 MONTHS	- CONTRAC	TOR HS				

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

H-WING MODIFICATION MN-18238B MODIFICATION TITLE AND NO

CLASS IV

C-5

MODELS OF AIRCHAFT AFFECTED: C-5

DESCRIPTION/JUSTIFICATION THE CURRENT C-5 WINGS HAVE AN ESTIMATED 7,100 HOUR SERVICE LIFE. THI FIRST C-5A WILL REACH ITS SERVICE LIFE BY 1982 UNLESS MODIFIED. THIS MODIFICATION WILL INSTALL A NEW CENTER, INNER AND OUTER WING TO EXTEND THE C-5A LIFE BY 30.000 FLYING HOURS, OPERATING AT A 200,000 POUND NORMAL PAYLOAD.

SCOPE OF PROGRAM

	PRIOR	FY	FY-80	FY	FY-81	Ξ	FY-82	00.	YEAR	7.0	7 ¥ 7.	
	QTY COST	QTY	COST	ÓΓΥ	COST	ÇΤΥ	COST	QTY	QTY COST	ory	COST	
		!		1	1	!		1				
BASIS FOR COST ESTIMATE:		4	85.4	12	166.7	80	181.8	42	4 85.4 12 166.7 18 181.8 42 398.0	26	76 831.9	
KITS TOOLING MOD OF CDADES		4	72.3	12	151.8	18	181.8	42	4 72.3 12 151.8 18 181.8 42 398.0 8.0 11.1	92	803.9	
ion of direct	3.68 1.0		7.7		9.6						8.0	
TOTAL		**	85.4	12	166.7	œ:	4 85.4 12 166.7 18 181.8 42 398.0	45	398.0	76	76 831.9	
HETHOD OF IMPLEMENTATION	INSTALLATION - CONTRACTOR LEAD TIME - 30 MONTHS	7 H	ONTRACT O MONTH	ror S								

FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO PYLON COMPONENT REDES/RELOC, MN-18247A

MODELS OF AIRCRAFT AFFECTED: C-5

DESCRIPTION/JUSTIFICATION: THE ELECTRICAL SYSTEM IN THE PYLON AREA IS SUBJECT TO CHAFING WITH FUEL AND HYDRAULIC SYSTEMS. CHAFING OF AN ELECTRICAL WIRE ON A HYDRAULIC TUBE RESULTED IN A FIRETHIS MOD WILL REROUTE THE ELECTRICAL, HYDRAULIC, AND FUEL SYSTEMS AND PROVIDES ELECTRICAL DISCONNECTS AT ENTRANCE AND EXIT FROM PYLON TO ALLOW INSTALLATION/REMOVAL OF PYLON WHILE LEAVING ELECTRICAL SYSTEM INSTALLED.

SCOPE OF PROGRAM:					į	;	į	6				
	PR	PRIOR	F.	86	F.	8-	F	FY-80 FY-81 FY-82	OUI	OUTYEAR	707	
	QTY		Ή¥	OTY COST	OTY	OTY COST	OTY	QTY COST (QTY	QTY COST	QTY	QTY COST
	1		!	1111	ł		i	1	1		1	
	ж	8 4.5 41 5.2 28 3.9	41	5.2	28	3.9					77	77 13.6
BASIS FOR COST ESTIMATE:												
		,										2.5
NONRECORKING	0 0	. 0.	41	.9 41 5.2 28 3.9	28	3.9					7.7	10.0
DATA		1.1								!	1	l
	1		!		!	1						
TOTAL	&	8 4.5 41 5.2 28 3.9	41	5.5	8,	3.9					11	77 13.6
METHOD OF IMPLEMENTATION:	INS	INSTALLATION - DEPOT	ī ·	POT								
	吕	LEAD TIME - 14 MONTHS	ì	TWOW 5	1S							

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO COMMERCIAL WEATHER RADAR NN-19201B

CLASS IV

5-5

MODELS OF AIRCRAFT AFFECTED. C-5A

DESCRIPTION/JUSTIFICATION REMOVES THE HIL-SPEC C-5 MULTI-MODE RADAR SYSTEM AND INSTALLS ARINC 564 COMMERCIAL TYPE WEATHER RADAR WITH GROUP B COMPONENTS COMMON WITH THE C-141 RADAR. THE NULTI-MODE IS EXPERIENCING ABOUT 30 HOUR MIBF AND THE COMMERCIAL TYPE EQUIPMENT A MINIMUM OF 500 MIBF.

SCOPE OF JPROGRAMS

PRIOR FY-80 FY-81 FY-82 OUTYEAR T O T A L QTY COST QTY COST QTY COST QTY COST QTY COST QTY COST QTY COST QTY COST QTY COST QTY COST RASIS FOR COST ESTIMATE. NONRECURRING RATA A 4 4 1 6.6 1 6.6 1 6.6 1 77 20.6 1 78 50 24 4.1 77 20.6 1 10 0.1 78 12.4 79 12.4 70 12.4 70 12.4 71 10 100.1 71 100.1 71 100.1 72 8.5 51 8.0 24 4.1 73 20.6
TOTAL 2TY COST 77 20.6 76 12.4 76 12.4 77 20.6
T A L COST 20.6 12.4 .4 .7 .7 .7

METHOD OF IMPLEMENTATION. INSTALLATION - DEPOT/FIELD TEAM LEAD TIME - 15 MONTHS

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

FUEL SAVINGS ADVISORY SYSTEM MODIFICATION TITLE AND NO

C-5 MODELS OF AIRCRAFT AFFECTED

DESCRIPTION/JUSTIFICATION. INSTALLS A STANDARD FUEL SAVINGS ADVISORY SYSTEM. DECLINING OIL RESERVES AND INCREASING FUEL COSTS DICTATE FUEL CONSERVATION 10 THE MAXIMUM EXTENT POSSIBLE.

SCOPE OF PROGRAM:	PRIOR QTY COST	⇒ 1	FY-80 TY COST	0 1	FY-81 QTY COST	FY.	FY-81 FY-82 OUTYEAR FY COST QTY COST QTY COST 10 2.2 25 2.0 42 4.0	OUTY QTY 	OUTYEAR QTY COST	T O T A L QTY COST	T O T A L TY COST
BASIS FOR COST ESTIMATE				3	1	})				
NONRECURRING KITS				 6	レ じる	25	.7 25 2.0 42 4.0	42	4.0	76	6.7
DATA TRAINER	h .				7					!	4.
TOTAL				10	2.2	25	10 2.2 25 2.f 42 4.0	45	4.0	7.1	8.2
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT LEAD TIME - 12 MONTHS	N - DE E - 12	POT MONT	HS							

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

STRETCH & AERIAL REFUELING, MN-2875 MODIFICATION TITLE AND NO.

CLASS V

C-141

MODELS OF AIRCRAFT AFFECTED: C-141

DESCRIPTION/JUSTIFICATION MODIFICATION WILL LENGTHEN THE C-141 FUSELAGE BY 280 INCHES. STRENCTHEN THE CENTER FUSELAGE, AND INSTALL IN FLICHT REFUELING CAPABILITIES. THIS MODIFICATION WILL INCREASE CARGO VOLUME BY 30% AND PERMIT LONGER FLICHTS WITHOUT GROUND REFUELING.

SCOPE OF PROGRAM:	PRIOR OTV COST		FY-80 OTY COS1 (FY. QTY	FY-81 QTY COST	FY-82 QTY COST		our. QTY	OUTYEAR QTY COST	TOTAL QTY COST	A L COST
	113 189.5 124 76.0 34 25.6	124	76.0	34	34 25.6			!	!	271	291.1
BASIS FOR COST ESTIMATE:											
NONRECURRING KITS	1 63.1 112 86.4	124	.8 73.2	34	25.6					1 270	63.9 185.2 6.1
DATA TRAINER	4.1 2.0 1.9		2.0								1.9
TOOLING	34.0			ļ		1		-	-		
TOTAL	113 189.5 124 76.0 34 25.6	124	76.0	34	25.6					271	1.167
METHOD OF IMPLEMENTATION	INSTALLATION - CONTRACTOR	N 7.	ONTRAC	TOR							

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

IMPROVEL WEATHER RADAR PROGRAM, NN-16622B MODIFICATION TITLE AND NO

MODELS OF AIRCRAFT AFFECTED

RIPTION/JUSTIFICATION THIS MODIFICATION REMOVES THE APN-59B RADAR SYSTEM AND INSTALLS A COMMERCIAL (ARINC 564) PILOT OPERABLE WEATHER RADAR. THIS WILL REDUCE LOGISTICS SUPPORT COSTS AND SIGNIFICANTLY IMPROVE MAINTAINABILITY AND RELIABILITY BY INCREASING SYSTEM MEAN TIME BETWEEN PAILURE FROM THE PRESENT 20 HOURS TO A CONTRACT WARRANTED 500 HOURS. THE PILOT OPERABLE CAPABILITY REDUCES THE NAVIGATOR REQUIREMENT TO ALL EXCEPT CERTAIN SPECIAL OPERATIONAL MISSIONS. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM	PRIOR	FY. OIY	FY-80 OTY COST	FY. QTY	FY-81 FY-82 QTY COST ()TY COST	FY. QTY	FY-82 QTY COST	OUT.	~	TOTAL COST	A L COST
	2 1.9 154 8.0 109 6.6	154	154 8.0	11.9	6.6			1	 	275	
BASIS FOR COST ESTIMATE										6	6.
NONREC JKRING KITS	2 .9	154	8.0	119	8.0 119 6.6					273	14.6
DATA TRAINER SIIPPORT EOULP.	.3				1	i	1		1	1	ŀ
IOTAL	2 1.9 154 8.0 119 6.6	154	8.0	119	9.9					275	16.5
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT LEAD TIME - 14 MONTHS	. S €	DEPOT 14 MON	THS							

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO DIGITAL FLICHT DATA RECORDER. MN-19608A

MODELS OF AIRCRAFT AFFECTED C-141 A/B

DESCRIPTION/JUSTIFICATION THE PRESENT SYSTEM RECORDS 4 PARAMETERS ON FOIL. HIGH FAILURE RATE ALONG WITH NO MEANS OF VFRIFYING PROPER RECORDING OF DATA AND THE LIMITED NUMBER OF PARAMETERS REQUIRE AN IMPROVED SYSTEM. TO PFRMIT MORE COMPREHENSIVE INVESTIGATIONS. MOD INCLUDES INSTALL OF A FLIGHT DATA ACQUISITION UNIT. AFT LOCATED RECORDER.

T O T A L QTY COST 275 14.8	2 2.1 273 11.3 1.0	275 14.8	
FY-81 FY-82 OUTYEAR QTY COST QTY COST 190 7.8 83 3.6		.3 .3 .3 .4 190 7.8 83 3.6	
o Y			
FY-82 QTY COST 83 3.6	7.7 83 3.6	3.6	
FY QTY 83	83	83	
FY-80 FY-81 FY-82 ITY COST QTY COST QTY COST 		.3 2 3.4 190 7.8 83 3.6	TEAM
FY- QTY 190	190	190	FIELD
FY-80 QTY COST (2.1	3.4	EFOT/I
0 1	2	2	N - 17
PRIOR QTY COST		! ! ! !	INSTALLATION - DEFOT/FIELD TEAM 1FAD TIME - 15 NONTHS
PR QTY		f 9 8	INSTA
SCOPE OF PROGRAM	BASIS FOR COST ESTIMATE NONRECURRING KITS DATA	TRAINER SUPPORT EQUIP. TOTAL	METHOD OF IMPLEMENTATION

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

MODIFICATION TITLE AND NO. FUEL SAVINGS ADVISORY SYSTEM

CLASS IV

C-141

C-141 MODELS OF AIRCRAFT AFFECTED DESCRIPTION/JUSTIFICATION INCREASING FUEL COSTS DICTATE FUEL CONSERVATION TO THE MAXIMUM EXTENT POSSIBLE.

SCOPE OF PROGRAM BASIS FOR COST ESTIMATE NONRECURING KITS DATA SUPPORT EQUIP.
SUPPORT EQUIP.
METHOD OF IMPLEMENTATION

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO EJECTION SFAT SEQUENCE NN-18203A

CLASS IV

T-38

MODELS OF AIRCRAFT AFFECTFD : 1-38

FROM EITHER SEAT POSITION. EJECTION SEAT DIVERGENCE, AN ALL GAS ACTUATED SEAT/MAN SEPARATION SYSTEM, AND A BALLISTIC POWERED INERTIAL REEL. THIS MOD WILL INSURE CORRECT EJECTION POSTURE. WILL ELIMINATE SEAT/MAN SEPARATOR FIRING LANYARD ENTANGLEMENT OR PREMATURE ACTUATION AND PREVENT COLLISION OF EJECTED CREW MEMBERS. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM												
	PR	PRIOR		-80	F	-81	FY	FY-80 FV-81 FY-82	100	YEAR	TOI	A L
	QTY	QTY COST	QT?	QTY COST	QTY	QTY COST	QTY	QTY COST QTY COST	QΤΥ	COST	Q'IY COST	COST
	1	1	1	1	•	-	:	!	ļ	1	1	1 1 1
	-	1 .5 263 1.9 414 3.1	263	1.9	414	3.1	207	207 1.6			885	7.1
BASIS FOR COST ESTIMATE:												
NONRECURRING		'n									-	٠.
KITS			263	1.8	414	3.0	207	263 1.8 414 3.0 207 1.6			884	4.9
DATA				7								-
TRAINER												7
SUPPORT EQUIP.						*						*
TOOLING						*						*
	1		!	1	!		-	\$4000 \$340 \$1490 BITT FEEEE SEEE SEEE GEET 17600 4000			!	
TOTAL	-	1 .5 263 1.9 414 3.1 207 1.6	263	1.9	414	3.1	207	1.6			885	7.1
METHOD OF IMPLEMENTATION	INSTA	INSTALLATION - DEPOT/CONTRACTOR LEAD TIME - 15 MONTHS	N - N	EPOT/C	ONTRA(HS	CTOR						

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FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

FUSELAGE DORSAL LONGERON. MN-19203A MODIFICATION TITLE AND NO.

MODELS OF AIRCRAFT AFFECTED: T-38A/B

(DADTA) STUDY IDENTIFIED PROBLEMS WITH THE DORSAL LONGERON AND FUSELAGE STATION 284 SPLICE BOLTS ON SEVERE USE T-38 AIRCRAFT. SAFETY LIMITS AND INSPECTION INTERVALS WERE ESTABLISHED BUT, INSPECTION IS NOT FEASIBLE DUE TO INACCESSIBILITY AND THE POTENTIAL OF DAMAGE BY INSPECTING. A BEEF-UP STEEL DOUBLER WILL BE ADDED. FASTENER HOLES CAN BE COLD WORKED AND/OR INTERFERENCE FASTENERS INSTALLED. FAILURE TO DO THIS MOD WILL RESULT IN GROUNDING OF AIRCRAFT. EVALUATION OF A RECENT DURABILITY AND DAMAGE TOLERANCE ASSESSMENT DESCRIPTION/JUSTIFICATION

Ë
SCOPE OF PROGRAM
OF
SCOPE

	PR	PRIOR FY-80 FY-81 FY-82	FY	-80	FY	-81	FY		OUT	YEAR	101	IAL
	QTY	QTY COST QTY COST QTY COST	QTY	COST	QTY	COST	QTY		QTY	QTY COST	ĊΤΥ	QTY COST
	1			;	!	1			!	1		
	-	1.8	65	2.7	65	2.5	77	1.3			155	155 8.3
BASIS FOR COST ESTIMATE:												•
NONRECURRING	-	1 1.5										1.5
KITS		.2	65	.2 65 2.7 65 2.5 24 1.3	65	2.5	24	1.3			154	6.7
TOOLING		∹		*								∵*
	!	***** **** **** **** **** **** **** ****		1		1	!		!		1	1 1 1
TOTAL	~	1 1.8 65 2.7 65 2.5 24 1.3	65	2.7	65	2.5	54	1.3			155	1.3
METHOD OF IMPLEMENTATION INSTALLATION - DEPOT	INSTA	LLATIO	i z	POT								

LEAD TIME - 17 MONTHS INSTALLATION - DEPOT

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

WING RESKIN MN-19316A MODIFICATION TITLE AND NO

CLASS IV

T-39

T-39 MODELS OF AIRCRAFT AFFECTED DESCRIPTION/JUSTIFICATION THIS MOD WILL RE-SKIN FIRCKAFT WING SKINS TO EXTEND STRUCTURAL FATIGUE LIFE OF WINGS FROM 22 500 HOURS TO 45,000 HOURS. NEW SKIN WILL POSSESS SUPERIOR CRACK TOLERANCE CHARACTERISTICS.

	u	OST	*	11 4		7.5	4.0		11.4
	A T (TOTAL OTY COST	O T CO 1 CO 1 CO			•		135 11.4	
	H	QTY		135			134	1	135
	24	ST	ļ	7.5			1.2	!	1.2
	7. YE	2		•			en.	i	, m
	ಠ	Ç.	į	109			10	i	106
	-82	COST	;	φ.			26 8 108 3.2		•
	FY	QTY	!	26			97		56
	-81	OTY COST OTY COST OTY COST	1	7.4		1 7.4		1	1 7.4 26 .8 108 3.2
				-		-		-	-
	-80	QTY COST						-	
								-	
	IOR	QTY COST	1					19790 0011 P1110 1010 16910 1101 1111 1111 1111	
	PR	QTY	-					-	
SCOPE OF PROGRAM					BASIS FOR COST ESTIMATE	RRING			
SCOPE 0					BASIS F	NONRECURRING	KITS		TOTAL

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT LEAD TIME - 22 MONTHS

AIRCRAFT FY-81 PROGRAM OF MODIFICATION

PY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

OUTER WING. MN-69025C MODIFICATION TITLE AND NO

C-130 MODELS OF AIRCRAFT AFFECTED:

DESCRIPTION/JUSTIFICATION. STRUCTURAL INTEGRITY DATA INDICATES REQUIREMENT FOR OUTER WING MODIFICATION IN THE MID 80'S DUE TO FATIGUE AND CORROSION PROBLEMS AT SEVERAL LOCATIONS ON THE WING. FAILURES HAVE OCCURRED IN THE OUTER WING LOWER FRONT BEAM CAPS, WITH RELATED CRACKS FOUND IN SPAR WEBS AND LOWER FORWARD WING SKIN PANELS AND STRESS CORROSION CRACKING HAS BEEN IDENTIFIED IN THE WING DRY BAYS. INTERIM SOLUTIONS OF REPAIRING OR REPLACING FAILED COMPONENTS HAVE BEEN IMPLEMENTED.

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SCOPE OF PROGRAM:	PRIOR FY-80 QTY COST QTY COST		81 COS7 16.	FY- QTY 84	-82 COST (FY-81 FY-82 OUTYEAR QTY COST QTY COST QTY COST 		TOTAL COST 498 314.6	A L COST 314.9
BASIS FOR COST ESTIMATE:			ć						3.5
NONRECURRING		21	12.1	84	0.97	21 12.1 84 46.0 393 252.9	6.3	498	
KITS DATA	21 16.0 84 46.0 393 252.9	21	16.0	84	46.0	21 16.0 84 46.0 393 252.9		498	314.9
TOTAL									
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT/PDM LEAD TIME - 32 MONTHS	OT/PDM MONTHS							

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MODIFICATION OF AIRCRAFT

FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

PROPELLER FLIGHT 1LLE STOP. MN-69077A MODIFICATION TITLE AND NO

C-130 MCDELS OF AIRCRAFT AFFECTED

UNDAMPENED THROTTLE CABLE TENSION REGULATOR OR ONE WITH A SEVERELY WORN RECULATOR DAMPENER.
THRE INCIDENTS HAVE OCCURRED AS A RESULT OF BROKEN THROTTLE CABLES. THIS MODIFICATION WILL INSTALL A MECHANICAL STOP ON THE PROPELLER, CONTROL SWITCHES IN THE THROTTLE QUADRANT, AND THE NECESSARY INTERCONNECTING WIRING. (PTION/JUSTIFICATION THE FLIGHT IDLE STOP WILL PREVENT THE PROPELLER FROM INADVERTENTLY GOING INTO REVERSE. THIS OCCURS IF A THROITLE INCREASE CABLE BREAKS ON EITHER AN AIRCRAFT WITH AN DESCRIPTION/JUSTIFICATION

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LEAD TIME - 12 MONTHS

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FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIP FORCE

MODIFICATION TILLE AND NO AFTERBODY STRAKES MN-680598

CLASS IV

C-130

C-130 MODELS OF AIRCRAFT AFFECTED. DESCRIPTION/JUSTIFICATION: STRAKES ARE NEEDED FOR DRAG REDUCTION AND FUEL CONSERVATION. PRIOR STUDIES INDICATE SUBSTANTIAL FUEL SAVINGS POSSIBLE AND AMORTIZATION POSSIBLE IN 2 TO 5 YEARS. DEPENDING ON FUEL COSTS.

SCOPE OF PROGRAM:	PRIOR	œ	¥.	FY-80		FY-81	FY	FY-82	OUT	YEAR	101	1 V
	OTY COST		8	OTY COST	QTY	QTY COST	QTY	QTY COST	OT.Y	OTY COST	QTY COST	COST
	-		-		į		!	1	!	•	-	
	٠						301	3.5	406	406 4.6	707	8.1
BASIS FOR COST ESTIMATE												
KITS							301	301 3.4 406 4.6	406	4.6	707	8.0
DATA			į				1				1	
TOTAL							301	301 3.5 406 4.6	406	4.6	707	8.1
METHOD OF IMPLEMENTATION	INS	ATION TIME	# I	STALLATION - DEPOT LEAD TIME - 6 MONTHS	НS							

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FY-81 APPROPRIATION AIRCRA.'T PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO RE-ENGINE

MODELS OF AIRCRAFT AFFECTED KC-135

CLASS V

C-135

DESCRIPTION/JUSTIFICATION PROCURES ALL HARDWARE REQUIRED TO RE-ENGINE ONE KC-135 AIRCRAFT, WHICH HAS THE OLDER TECHNOLOCY J-57 TURBOJET ENGINES, WITH NEW FULL EFFICIENT, HIGH BY-PASS TURBO FAN ENGINES, LHCREASING THE THRUST BETWEER 40 AND 62 PERCENT DEPENDING ON ENGINE SELECTION. TOTAL DESIGN. DEVELOPMENT AND TESTING EFFCRTS RELATING TO THIS PROTOTYPE ARE FUNDED IN THE RDT&E APPROPRIATION AND INSTALLATION LABOR IS PLANNED IN THE OPERATION & MAINTENANCE APPROPRIATION.

SCOPE OF PROGRAM:

SCOLE OF FRUGRAF:										
	PRIOR FY QTY COST QTY	FY-80 FY-81 QTY COST	FY-{ QTY (FY-81	FY-QTY	FY-82 QTY COST (OUTY OTY	OUTYEAR QTY COST	T O T A L QTY COST	COS
BASIS FOR COST ESTIMATE.		5.0	~	14.5					-	1 49.5
NONRECURRING KITS		5.0	1 44.5	5.4.5					-	5.0
TOTAL	5.0 1 44.5	5.0	5.0 1 44.5	4.5	1		!	;	- -	1 44.0
METHOD OF IMPLEMENTATION	INSTALLATION - CONTRACTOR LEAD TIME - 30 MONTHS	NTRACTO MONTHS	S S						-	,

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FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

MODIFICATION TITLE AND NO AIRBORNE LAUNCH CONTROL SYSTEM (ALCS) PHASE III

MODELS OF AIRCRAFT AFFECTED EC135A/C/G

DESCRIPTION/JUSTIFICATION THE ALCS WAS DESIGNED TO PROVIDE AN ALTERNATIVE MFANS OF PROGRAMMING/LAUNCHING MINUTEMAN MISSILES IN THE EVENT GROUND LAUNCH CONTROL CENTERS (LCCS) ARE DESTROYED. THE CURRENT ALCS CAN SELECT PRESTORED TARGETS AND LAUNCH MISSILES. HOWEVER IT CANNOT (1) DETERMINE MISSILE STATUS (11 MUST "SHOOT IN THE DARK") OR (2) RETARGET SURVIVING OR WITHHELD MINUTEMAN III MISSILES.

T O T A L QTY COST 9 23.5		2.6 16.2	i	
T O QTY		- 8		6
FY-81		6 12.0 2 4.2	1.8	1 3.7 6 13.8 2 6.0
OUT QTY		7		7
-82 COST 13.8		12.0	1.8	1 3.7 6 13.8 2 6.0
PY QTY 		9		9
-81 COST		1 2.6	.7	3.7
		-		-
FY-80 QTY COST				
PRIOR QTY COST				
PR				
SCOPE OF PROGRAM	BASIS FOR COST ESTIMATE:	NONRECURRING KITS	ĸ	
SCOPE	BASIS	NONREC	DATA TRAINER	TOTAL

METHOD OF IMPLEMENTATION. INSTALLATION - DEPOT LEAD TIME - 12 MONTHS

HODIFICATION OF AIRCRAFT

FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

LIFE EXTENSION-WING RESKIN, MN-14302B HODIFICATION TITLE AND NO.

CLASS IV

C-135

MODELS OF AIRCRAFT AFFECTED: C-135

DESCRIPTION/JUSTIFICATION: SERVICE LIPE OF.C-135 AIRCRAFT IS 8,500 TANKER EQUIVALENT FLYING HOURS.
REPLACEMENT OF LOWER WING SKIN IS REQUIRED TO ALLOW THE AIRCRAFT TO MEET PROGRAMMED SERVICE
LIFE. FLIGHT RESTRICTIONS HAVE BEEN PLACED ON ALL AIRCRAFT EXCEEDING 8,500 FLIGHT HOURS.
MODIFICATION INSTALLS 2024-T351 MATERIAL WHICH HAS SUPERIOR CRÂM TOLERANGE CHARACTERISTICS.

SCOPE OF PROGRAM	-												
BASIS FOR COST ESTIMATE:	7TY 0TTY 234	PRIOR QTY COST 234 82.9	FY OTY 84	FY-80 QTY COST 84 30.0		FY-81 FY-82 QTY COST QTY COST 72 34.3 72 44.1	err 72	FY-82 Y COST	00TY 0TY 278	OUTYEAR QTY COST 	T O OTY	T O T A L QTY COST 740 394.3	
NOWRECURRING KITS DATA TOOLING	234	4.2 234 76.9 84 3 .5 1.3	8	30.0	. 22	84 30.0 72 34.3 72 44.1 278 203.0	72	44.1	278	203.0	740	4.2 388.3 .5	
TOTAL	234	234 82.9 84 30.0 72 34.3 72 44.1 278 203.0	84	30.0	72	34.3	72	44.1	278	203.0	740	394.3	
METHOD OF IMPLEMENTATION	INSTAI LE	INSTALLATION - DEPOT LEAD TIME - 22 MONTHS	- DE	POT	ø							•	

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

DOPPLER REPLACEMENT, MN-16405B MODIFICATION TITLE AND NO

CLASS IV

C-135

MODELS OF AIRCRAFT AFFECTED: C-135

IPTION/JUSTIFICATION: THE C-135 AIRCRAFT ARE EQUIPPED WITH AN OBSOLETE DOPPLER NAVIGATION SYSTEM WHICH HAS A LOW SYSTEM RELIABILITY AND HIGH HAINTENANCE SUPPORT COST. THIS MODIFICATION REPLACES THE OBSOLETE DOPPLER WITH THE COMMON STRATECIC DOPPLER SYSTEM TO PROVIDE A RELIABILITY IMPROVEMENT AND REDUCE SUPPORT COSTS. DESCRIPTION/JUSTIFICATION:

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SCOPE OF PROGRAM												
	E	PRIOR			F	- 8		FY-82	100	YEAR	0	LAL
	QTY	QTY COST		OTY COST	QTY	OTY COST	5	OTY COST	QTY	OTY COST	QTY	QTY COST
	!	!			ļ			!	!	1		
	191	21.6			260	32.5					751	87.2
BASIS FOR COST ESTIMATE:												
ONRECURRING	-	2.9									-	2.9
ITS	160	160 16.9	330	30.0	260	260 29.5					750	76.4
AIA		.7		6.		7.						2.0
RAINER				1.9		5.6						4.5
UPPORT EQUIP.		::										1.1
TOOLING				£.								÷
					-		1	1	-			
rotal	161	161 21.6 330 33.1 260 32.5	330	33.1	260	32.5					751	87.2

METHOD OF IMPLEMENTATION: INSTALLATION - DEPOT LEAD TIME - 9 MONTHS

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION ASSCRAFT PROCUREMENT, AIR FORCE

MODIFY HORIZONTAL STABILIZER NN-49153B MODIFICATION TITLE AND NO

CLASS IV

C-135

C-135 MODELS OF AIRCRAFT AFFECTED DESCRIPTION/JUSTIFICATION ENGINEERING ANALYSIS INDICATES STRUCTURAL FATIGUE, PROBLEMS IN THE LEFT AND RIGHT HORIZONTAL STABLIZER. THIS MOD WILL REPLACE AND REWORK THE COMPONENT PARTS AND STRUCTURES TO MAKE THE STABLIZER LIFE EQUIVALENT TO THE WING RESKIN LIFE.

SCOPE OF PROGRAM

BASIS FOR COST ESTIMATE NONRECURRING KITS DATA TOTA TOT		4 1 4										
RING 1 3.2 180 5.1 517 17.8 * 180 5.1 517 17.8 * 1.2 1 2.0 1 2.0 1 3.2		PRIOR QTY COST			• •	-81 COST	ÇTY QTY	-82 COST	OUT QTY	YEAR	T O QTY	r A L COST
# 180 5.1 517 17.8 697 * 1.2 1.2 1.2 1.3 1.3.2 ;80 5.1 517 17.8 698 F IMPLEMENTATION INSTALLATION - DEPOT/PDM	SIS FOR COST ESTIMATE				~	3.2	180	5.1	517	17.8	869	26.1
* 180 5.1 517 17.8 697 1.2 1.2 1.2 1.3 1.4 1.5 1.5 1.5 1.5 1.8 698 F IMPLEMENTATION INSTALLATION - DEPOT/PDM	ARECURRING FS				-	2.0	9			,		
1 3.2 ;80 5.1 517 17.8 698 INSTALLATION - DEPOT/PDM	IA ILING					1.2	180	2.1	517	17.8	697	22.9
INSTALLATION - DEPOT/PDM	AL				-	3.2	. 80	5.1	517	17.8	869	26.1
	HOD OF IMPLEMENTATION	INSTAILATIO	N - DE	POT/PD	Σ							

FY-81 APPROPRIATION AIRCRAFT PRUCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. FUEL SAVINGS ADVISORY SYSTEM

CLASS 1V

C-135

MODELS OF AIRCRAFT AFFECTED: C-135

DESCRIPTION/JUSTIFICATION INSTALLS A STANDARD FUEL SAVINGS ADVISORY SYSTEM. DECLINING OIL RESERVES AND INCREASING FUEL COSTS DICTATE FUEL CONSERVATION TO THE MAXIMUM EXTERT POSSIBLE.

69.3 TOTAL OUTYEAR QTY COST 49.2 49.2 3.0 170 17.1 569 49.2 569 269 170 14.0 FY-82 QTY COST 170 17.1 3.1 3.0 FY-81 QTY COST 1.5 FY-80 QTY COST PRIOR QTY COST BASIC FOR COST ESTIMATE SCOPE OF PROGRAM. SUPPORT EQUIP. NONRECURRING KITS DATA TOTAL

69.3

FITHOD OF IMPLEMENTATION INSTALLATION - DEPOT LEAD TIME - 12 MONTHS

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

616A 100 YILOWATT TRANSHITTER (MEECN) MOPIFICATION TITLE AND NO

EC-135 C/3/H/P MODELS OF AIRCRAFT AFFECTED MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NFTWORK (MEECN), ASSURES PESCRIPTION/JUSTIFICATION

PROGRAM 616A ELIMINATES DEFICIENCIES IN THE AIR FORCE PORTION OF THE MEECN VLF/LF SYSTEM ACCOMBING TO REQUIREMENTS ESTABLISHED BY THE JCS AND SION CINCS. THE 100 KILOWATT TRANSMITTER WILL INCREASE THE RADIATED SIGNAL ENERGY BY 7 db, WHICH WILL YIELD A SIGNIFICANT INCREASE IN VLF/LF LINK RANGE.

SCOPE, OF PROGRAM	PRIOR QTY COST	FY-80 QY COST		81 COST	FY-82 QTY COST	FY-82 OUTYEAR QTY COST QTY COST	00TY 0TY 19	OUTYEAR QTY COST 19 14.7	T 0 T QTY	T O T A L QTY COST 23 18.6
BASIS FOR COST ESTIMATE										
KITS					4	2.9	19	4 2.9 19 9.6	23	23 12.5
DATA SUPPORT EQUIP.						7 60		0.4		8.
TOTAL	4 3.9 19 14.7	 			•	4 3.9 19 14.7	61	14.7	23	23 18.6
HETHOD OF IMPLEMENTATION	INSTALLATION - DEPOT LEAD TIME : 13 MON	STALLATION - DEPOT LEAD TIME & 13 MONTHS	NTHS							

FY-81 APPROPRIATION AIPCRAFT PROCUREMENT. AIR FORCE

MODIFICATION TITLE AND NO 616A. TE MODE ANTENNA (MEECN)

MODELS OF AIRCRAFT AFFECTED EC-135 C/J/H/P

MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK (MEECN), ASSURES DESCRIPTION/JUSTIFICATION TRANSMISSION OF

PROGRAM 616A ELIMINATES DEPICIENCIES IN THE AIR PORCE PORTION OF THE MEECN VLF/LF SYS-TEM ACCONDING TO REQUIREMENTS ESTABLISHED BY THE JCS AND SIOP CINCS. THE TE (TRANSVERSE ELECTRIC) MOD ANTENA WILL PERMIT THE RECEPTION OF HORIZONTALLY POLARIZED SIGNALS WHICH WILL SIGNIFICANTLY INCREASE LINK PERFORMANCE, BECAUSE THE MAJOR PART OF ENERGY TRANSMITTED FROM THE TRAILING WIRE ANTENAS ON THE AIRBORNE COMMAND POSTS IS IN THE HORIZONTALLY POLARIZED MODE.

SCOPE OF PROGRAM.

T O T A L QTY COST 23 5.9	23 4.6	
OUTYEAR QTY COST		
FY-82 QTY COST 23 5.9	23 4.6	
FY-81 QTY COST		S
FY-30 077 COST		STALLATION - DEPOT LEAD TIME - 12 MONTHS
PRIOR QTY COST	23 4.6 .2 .1.1	INSTALLATION - DEPOT LEAD TIME - 12 MON
BASIS FOR COST ESTIMATE	KITS DATA SUPPORT EQUIP. TOTAL	METHOD OF IMPLEMENTATION

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. UPDATE

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KODELS OF AIRCRAFT AFFECTED. E-3

DESCRIPTION:/JUSTIFICATION AIRCRAFT REQUIRE MODIFICATION TO CORRECT DEFICIENCIES REVEALED DURING DEVELOPHENT AND INITIAL USE. CORRECTIONS ARE INCORPORATED IN PRODUCTION AT THE EARLIEST TIME. UPDATE MODIFICATIONS ARE REQUIRED TO MAINTAIN CONFICURATION CONTROL OF DELIVERED AIRCRAFT AND THOSE TOO FAR INTO PRODUCTION FOR INCORPORATION. REQUIREMENTS LISTED ARE KNOWN PROBLEM AREAS AND ARE REPRESENTATIVE OF THE TOTAL MODIFICATIONS ANTICIPATED.

TOTAL QTY COST		44.3	44.3
OUTYEAR QTY COST		20.0	20.0
OU			
FY-82 QTY COST (10.0	7 3 7.0 10.0
F QTY		1	
FY-81 QTY COST		7.0	7.0
FY QTY			
FY-80 QTY COST		7.3	7 3
OTY OTY			
PRIOR QTY COST			
PR			
SCOPE OF PROCRAM	BASIS FOR COST ESTINATE	AIRCRAFT	TOTAL

, **,

E-3A REPRESENTATIVE UPDATE MODIFICATIONS

RADOME IMPROVEMENT. REPLACES SURVEILLANCE HALF OF RADOME WITH NEW TAPERED DESIGN TO INCREASE RELIABLE DETECTION AND HELGHT ACCURACY MEASUREMENT. (OLD RADOME IS RETURNED FOR PRODUCTION INCORPORATION ON IFF SIDE OF NEW AIRCRAFT.)

BLOCK CHANGE OF 25 APPROVED CHANGES TO CORRECT DEFICIENCIES IN CURRENT RADAR. RADAR MODIFICATION.

SPECTRAL CONTROL FEATURE (SCF). SCF MODIFIES FOUR COMPONENTS TO MINIMIZE PERFORMANCE DEGRADATION. WITHOUT THIS MODIFICATION THE E-31. WOULD NOT HAVE FREQUENCY CLEARANCE TO OPERATE IN EUROPE. THIS IS AN ABSOLUTE MISSION NECESSITY.

ATTITUDE AND HEADING REFERENCE SYSTEM (AHRS) REPLACEMENT. REPLACES CURRENT 200-400 HOUR MEANTIME BETWEEN FAILURE (MTBF) AHRS WITH A NEW STATE OF THE ART REPLACEMENT (2000 HOUR MTBF).

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FLIGHT DIRECTOR EADIF GARKER. ADDS A REMOTE SLEW SWITCH TO THE CONTROL YOKE TO ENABLE THE PILOT TO REMOTELY PESITION FAR HERENOTELY PESITION FAR HERENOTELY PESITION FOR THE HORIZONTAL SITUATION INDICATOR.

FORWARD FORCED AIR COOLING. THIS MOD WILL ADD CONTINUOUS COOLING OF THE E-12 AND E-19 COOLING RACKS AS WELL AS OPERATION OF BOTH FORWARD AND AFT COOLING SYSTEMS WITHOUT STALLING THE DRAW-THROUGH SYSTEM FAN.

PAST/SLOW INDICATOR. RELOCATES THE FLAP POSITION INPUT'OF THE SPRED DEVIATION INDICATOR SUBSYSTEM TO THE OUTBOARD FLAP POSITION TRANSAL "ZER.

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

E-4A TO E-4B RECONFIGURATION. MN-3044 MODIFICATION TITLE AND NO

E-4A MUDELS OF AIRCRAFT AFFECTED

IFTION/JUSTIFICATION THREE E-4A INTERIM ADVANCED AIRBORNE COMMAND POST (AABNCP) AIRCRAFT ARE SCHEDULEL FOR RETROFIT TO THE E-4B CONFIGURATION FOLLOWING DEFENSE SYSTEM ACQUISITION REVIEW COUNCIL (INSARC) III APPROVAL IN EARLY 1980. THE MODIFICATION CONSISTS OF RECONFIGURING THE INTERIM C-135 C3 EQUIPMENT INSTALLED ON THE E-4A AND INTEGRATING IT WITH THE NEWLY DEVELOPED E-4B C3 EQUIPMENT. THE E-4B CONFIGURATION GREATLY INCREASES FORCE CONNECTIVITY, IMPROVES RELIABILITY AND PROVIDES NUCLEAR HARDENING. DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM RASIS FOR COST ESTIMATE:	PRIOR FY-60 FY-81 FY-82 QTY COST QTY COST	OTY O	FY-80 FY COST (FY- OTY 1 1	FY-81 QTY COST 1 133.7	OIY 1	FY-82 QTY COST 1 153.8	OUTYEAR QTY COST	T O T QTY	TOTAL QTY COST
DATA C3 EQ AIRCRAFT ADV. PROC TOTAL	10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	10.0 1 53.1 1 57.7 1 56.9 10.0 10.0 114.3 1 133.7 1 153.8	1.0 60.2 1 53.1 1	- -	1.3 74.7 57.7 33.7	1 1	1.3 95.6 56.9 153.8		m im	3.6 230.5 167.7 10.0 411.8
METHOD OF IMPLEMENTATION	INSTALLATION - CONTRACTOR LEAD TIME - 18 HONTHS	N - CO	NTRACT MONTH	S S						

AIR FORCE FY-81 APPROPRIATION AIRCRAFT PROCUREMENT

AUTOMATIC DATA PROCESSING (ADP) MODIFICATION TITLE AND NO

2-4B MODELS OF AIRCRAFT AFFECTED DESCRIPTION/JUSTIFICATION TO IMPROVE THE E-4 BATTLE STAFF MANAGEMENT CAPABILITY, PROVIDE CRITICAL
AND TIME SENSITIVE INFORMATION TO THE NATIONAL COMMAND AUTHORITY: AND PROVIDE A CREDIBLE MEANS
OF PROSECUTING THE SIOP. ADP WILL ACCOMPLISH THIS BY REDUCING THE MANUAL MANIPULATION OF SIOP
DATA. THE ADP SYSTEM WILL CONSIST OF HINI-COMPUTER, MASS STORAGE. DISPLAY DEVICES, PRINTERS
AND INTERFACES TO ON-BOARD COMMUNICATIONS EQUIPMENT. FOUR E-4B AIRCRAFT WILL BE MODIFIED.
ADP FOR AIRCRAFT 5 & 6 WILL BE INCLUDED IN BASELINE PRODUCTION.

SCOPE OF PROCRAM

INSTALLATION - CONTRACTOR LEAD TIME - 9 MONTHS METHOD OF IMPLEMENTATION

MODIFICATION OF AIRCRAFT

FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO VINSON/PARKHILL TAC SECURE VOICE

CLASS V

01-10

MODELS OF AIRCRAFT AFFECTED: 0V-10A

COMMUNICATIONS FOR FLIGHT CREW IN THE OV-10 AIRCRAFT. PARKHILL IS PRIMARILY DESIGNED FOR USE ON HIGH-FREQUENCY (HF) RADIO CIRCUITS TO PROTECT VOICE COMMUNICATIONS OF PERISHABLE INTELLIGENCE VALUE AT THE CONFIDENTIAL AND SECRET LEVEL. VINSON SECURE VOICE PROVIDES ONLINE ENCRYPTION/DECRYPTION OF VHF/UHF, AM/FM HALF-DUPLEX RADIO FOR ALL CLASSIFICATION TRAFFIC. TO PROVIDE SECURE AIR TO AIR AND AIR TO GROUND VHF AND HF VOICE DESCRIPTION/JUSTIFICATION

SCOPE OF PROGRAM:

	PRIOR FY-80 FY-81	Ϋ́	-80	FY	-81	FY	-82	OUT	YEAR	F 0	- A
	QTY COST QTY COST	QTY	COST	QTY	QTY COST	QTY	T OTY COST OFY COST	OTY	COST	OTY COST	COST
		1		!	1	!	1	!	-		
BASIS FOR COS1 ESTIMATE		-	*	88	88 2.2					89	2.2
NONRECURRING		-	*							,	
KITS		•	•	88	88 2.2					- 00	* ′
DATA			*		1					80	7.7
		-	-	-		-		-		1	
TOTAL		-	1 * 88 2.2	88	2.2					89	2.2
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT	- DE	POT								
	LEAD TIME - 24 MONTHS	- 24	MONT	1S							

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCE

MODIFICATION TITLE, AND NO HAVE QUICK

CLASS V

MULTI

MODELS OF AIRCRAFT AFFECTED MULTI

DESCRIPTION/JUSTIFICATION: THERE IS A NEED TO PROTECT
CONNUNICATIONS FROM HOSTILE ELECTRONIC COUNTER-COUNTERMEASURES. THE HAVE QUICK PROCRAM WILL PROVIDE INTERIM PROTECTION WHILE LONG RANGE TECHNOLOGIES ARE BEING DEVELOPED.

	TAL	QTY COST	1	25.5		2.4	17.7	1.4	4.0		
	T O	φīγ	1 1 1	1394			1394				1394
	OUTYEAR	COST	1								
	50	QTY									
;	-82	QTY COST	!								
										1	
	-81	qry cost	-	18.8		#. #.	13.8	1.0	2.2		18.8
							879				879
	-80	TSOO YIY	1	6.7		9.	3.9 879	4.	1.8		515 6.7 879 18.8
	ĭ	ÚΙΛ	1	515			515			!	515
	IOR	QTY COST	1								
	ጀ	QTY	i								
SCOPE OF PROGRAM					BASIS FOR COST ESTIMATE	NOYRECURRING	KITS	DATA	SUPPORT EQUIP.		TOTAL

RETHOD OF IMPLEMENTATION · INSTALLATION - ORG/FIELD LEAD TIME - 11 MONTHS

FY-81 APPROPRIATION . IRCRAFT PROCUREMENT . AIK FORCE

CLASS

MULTI

VINSON TAC SECURE VOICE RODIFICATION TITLE AND NO.

MODELS OF AIRCRAFT AFFECTED: MULTI AN/ARC-164

OPERATION IN AIRCRAFT INSTRUMENT PANELS OR RADIO-CONSOLE CONTROL PANELS, OR IT MAY BE LOCATED IN EQUIPMENT BAYS AND OPERATED BY A REMOTE CONTROL UNIT (RCU). THIS MODIFICATION ENABLES THE AN/ARC-164 TO OPERATE IN THE 25 KHZ BASEBAND MODE WITH THE VINSON EQUIPMENT. VINSON SECURE VOICE PROVIDES ON-LINE ENCRYPTION/DECRYPTION OF VHF/UHF AN/FH HALF-DUPLEX RADIO FOR ALL CLASSIFICATION OF TRAFFIC. THE TSEC/KY-58 IS DESIGNED FOR DESCRIPTION/JUSTIFICATION:

20.1 19.5 20.1 COST TOTAL 20000 20000 8.0 9.0 8.0 QTY COST 1 OUTYEAR 4.0 8000 4.0 8000 4.0 800C QTY COST FY-82 4.0 4000 4.0 4000 4.0 4100 OFY COST FY-81 4500 4.1 4500 3.5 4500 LEAD TIME - 9 MONTHS OTY COST INSTALLATION - FIELD FY-80 3500 3500 QTY COST PRIOR 1 METHOD OF IMPLEMENTATION BASIS FOR COST ESTIMATE. OF PROGRAM: NCNRECURR 133 TOTAL SCOPE KITS DATA

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MODIFICATION OF AIRCRAFT FY-81 PROCRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT

AIR FORCE

HF SINGLE SIDE BAND RADIO MM-16620C MODIFICATION TITLE AND NO-

CLASS IV

MULTI

MULTI MODELS OF AIRCRAFT AFFECTED PTION/JUSTIFICATION CURRENT RADIOS DO NOT MEET THE 1980 REQUIREMENTS FOR CHANNEL SPACING. PREQUENCY ACCURACY AND STABILITY AND PARKHILL COMPATIBILITY. THE ARC-123 AND AT-440 HAVE HIGH LOGISTICS SUPPORT COSTS (OLD UNRELIABLE TUBE TYPE EQUIPMENTS) LOW MEAN TIME BETWEEN DEMAND AND OBSOLETE DESIGN ON MANY SUB-ASSEMBLIES. THIS IS THE SECOND STEP IN THE HF MODERNIZATION PROGRAM. STANDARDIZATION OF HF RADIOS WILL PROVIDE SUBSTANTIAL LOGISTICS COST REDUCTIONS. DESCRIPTION/JUSTIFICATION

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PRIOR FY-80 FY-81 QTY COST QTY COST QTY COST 5 .8 505 11.5 5 .8 505 8.6 11.1 5 .8 505 8.6 5 .8 505 11.5
Y-81 FY COST QTY 11.5 6C3 .4 3 8.6 600 .5 .9 .9 .9
FY-82 QTY COST 6C3 12.7 3 .5 600 10.0 .3 1.1 603 12.7
FY-82 OUT QTY COST QTY 6C3 12.7 603 3 .5 3 600 10.0 600 .3 .8 1.1
600 603
FY-82 OUTYEAR T O T A L QTY COST QTY COST (TY COST 12.7 603 13.8 1716 38.8 600 10.0 600 10.6 1705 29.2 7.7 8 1.0 2.7 603 12.7 603 13.8 1716 38.8

METHOD OF IMPLEMENTATION: INSTALLATION - ORG/FIELD LEAD TIME - 12 MONTHS

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 AFF POPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO STANDARD VHF AM/FH FADIO, MN-17612C

DESCRIPTION/JUSTIFICATION IN FEB 1977 THE AIR STAFF VALIDATED A REQUIREMENT TO PROVIDE A 25KHZ VHF AM/FM RADIO CAPABILITY FOR SELECTED AIRCRAFT WHICH WERE AFFECTED BY THE FAA AND THE INTERNATIONAL COMMUNICATION IMPLEMENTATION ON 1 JAN 1977 OF 25KHZ CHANNEL COMMUNICATION WHERE VHF/AM IS THE PRIMARY FREQUENCY BAND FOR CIVILIAN/MILITARY AIR TRAFFIC CONTROL. THE GOAL OF THE DIRECTED PROGRAM IS TO MEET ALL KNOWN OPERATIONAL REQUIREMENTS, STANDARDIZE THE VHF INVENTORY, IMPROVE NELIABILITY AND MAINTAINABILITY. MODELS OF AIRCRAFT AFFECTED; MULTI

SCOPE OF PROGRAM.	PRIOR FY-80 FY-81 FY-82 QTY COST QTY COST QTY COST GTY COST	OUTYEAR CTY COST	T 0 T A L QTY COST 2473 25.0	_
BASIS FOR COST ESTIMATE	6.		1.8	~ ~
NONRECURRING KITS	857 8.2 1044 7.0 572 6.5		1.5	
DATA	857 9.3 1044 8.6 572 7.1		2473 25.0	5
TOTAL METHOD OF IMPLEMENTATION				

HODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPKIATION AIRCRAFT PROCUREMENT, AIR FORCE

UPDATE RWR SIGNAL PROCESSOR, MN-68044B MODIFICATION TITLE AND NO.

CLASS IV

MODELS OF AIRCRAFT AFI SIED MULTI

DESCRIPTION/JUSTIFICATION MODIFICATION INCLUDES UPDATE TO RECLIVE THE LATEST PARAMETER CHANCES TO THE HARDWARE AND SOFTWARE THAT ARE REQUIRED TO UPDATE AND CORRECT 15 KNOWN CHANGES TO THE CM442A/ALR46(V). REQUIRED FOR FIRST LINE AIRCRAFT TO HAVE THE CAPABILITY TO IDENTIFY AND LOCATE THF LATEST, KNOWN ENEMY THREATS.

SCOPE OF PROGRAL.												
	H.	PRIOR	ΕĶ	FY-80	FŸ	FY-81		FY-82	OUT	YEAR	TOT	A L
	QTY	QTY COST	(TY	QTY COST	QTY	QTY COST	QTY	QTY COST	QTY	QTY COST	QTY COST	COST
	į	!!!	1	!	;	1	1	:	İ		1	
			450	7.6	009	450 7.6 600 5.2 705 5.2	705	5.2			1755	18.0
BASIS FOR COST ESTIMATE												
NONRECURRING				Ξ,								7
KITS			450	4.6	900	450 4.6 600 4.3 705	705	5.5			1755	14.1
DATA				۰								œ
TRAINER				.7		6.						1.6
SUPPORT EQUIP.				1.4								1.4
	1			-							1	
TOTAL			450	7.6	009	450 7.6 600 5.2 705 5.2	705	5.2			1755	18.0
METHOD OF IMPLEMENTATION	INSTA	INSTALLATION - DEPOT/FIELD TEAM LEAD TIME - 12 NONTHS	N H	EPOT/F	IELD 1 HS	IEAM						

MODIFICATION OF AIRCRAFT FY-81 PROGRAM

FY-81 APPROPRIATION AIRCRAFT PROCUREMENT. AIR FORCF

HODIFICATION TITLE AND NO CLASSIFIED PROJECTS

CLASSI CLASS V

MODELS OF AIRCRAFT AFFECTED: MULTI-AIRCRAFT

DESCRIPTION/JUSTIFICATION THESE FUNDS ARE REQUIRED TO PROVIDE FOR THE MODIFICATION OF VARIOUS AIRCRAFT AND AIRBORNE SYSTEMS USED IN CLASSIFIED MISSIONS. WHICH BECAUSE OF THEIR SENSITIVE NATURE REQUIRE THE APPLICATION OF SPECIAL MANAGEMENI AND SECURITY SAFEGUARDS.

		TAL	QTY COST	1	428.0		428.0	428.0
		T O	QTY	!				!
		YEAR	OTY COST		168.6		168.6	168.6
		50	ĊΤΥ	ļ				
		-82	QTY COST Q	-	70.4		70.4	41.3 99.4 70.4
		Ŧ	QTY	ļ				
		-81	ory cost	!	99.4		7.66	99.4
		FY	QŢŶ	ļ				
		-80	QTY COST	1	41.3		41.3	41.3
;		FY						
		PRIOR	QTY COST	!	48.3		48.3	48.3
		PR	QTY	-				•
						担		
200	WY.					BASIS FOR COST ESTIMATE		
	SCOPE OF PROGRAM					OR COST	IED	
.	COPE O					ASIS F	CLASSIFIED	TOTAL
	ŏ					ñ	ច	Ĭ

MODIFICATION OF AIRCRAFT

FY-81 PROGRAM

AIR FORCE FY-81 APPROPRIATION: AIRCRAFT PROCUREMENT

STD LOW ALTITUDE RADAR ALTIMETER. MN-19605C MODIFICATION TITLE AND NO.

CLASS IV

MULTI

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MULTI MODELS OF AIRCRAFT AFFECTED

WITH A NEW SOLID STATE ALTIMETER. NEW SYSTEM WILL MEET REQUIREMENTS OF ARINC SPECIFICATION (BEING DEVELOPED) WITH A RELIABILITY GOAL GREATER THAN 2000 HOURS. FURTHER, IT WILL BE A DIRECT REPLACEMENT WITH NO CHANGE TO AIRCRAFT WIRING. EXISTING SYSTEMS HAVE A LOW RELIABILITY AND HIGH LOGISTIC SUPPORT COST. THEY ARE OVER TEN YEARS OLD AND ARE ENCOUNTERING NUMEROUS PARTS SUPPLY PROBLEMS. PROPÓSED MODIFICATION WILL REPLACE EXISTING RADAR ALTIMETERS REFERENCED DESCRIPTION/JUSTIFICATION.

OF PROCRAM. SCOPE

COLUMN TO THE CO	O Laa		í	į	;	i	į	į			
	OTY COST		FY-80 OTY COST	OTY	FY-81 QTY COST	FY	-82 COST	OUT QTY	FY-82 OUTYEAR QTY COST QTY COST	T O T	T O T A L QTY COST
	!	-	!		!	ł	1	!			
BASIS FOR COST ESTIMATE						356	13.9	2677	23.5	3033	37.4
NONRECURRING						•	7.0			9	7.1
KITS						350	2.7	2677	23.5	3027	26.2
DATA							1.2				
SUPPORT EQUIP.							2.3		2.3		2.3
17404		!	1	:					-		
ומישר						326	356 13.9 2677 23.5	2677	23.5	3033	37 4

INSTALLATION - ORG/INTERMEDIATE LEAD TIME - 9 MONTHS

METHOD OF IMPLEMENTATION

RAF CLASS 1

FY-81 APPRUPRIATION AIRCRAFT PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO CIVIL RESERVE AIR FLEET (CRAF)

MODELS OF AIRCRAFT AFFECTED WIDE BODIED CIVIL A/C (B-747/DC-1011)

DESCRIPTION/JUSTIFICATION: EXISTING MILITARY STRATEGIC CARGO AIRLIFT CAPABILITY, AUGMENTED BY CURRENTLY AVAILABLE CRAFT STACE III CARGO CAPABILITY, IS DEFICIENT IN SATISFYING THE TIME PHASED DEPLOY-MENT REQUIREMENTS OF A MAJOR CONTINGENCY. ADDITIONALLY, MANY OF THE CURRENT GRAF CARGO AIRCRAFT ARE 20 YEARS OLD, OR OLDER, AND ARE BEING PHASED OUT OF THE COMMERCIAL FLLET. TO IMPROVE OUR STRATEGIC AIRLIFT CAPABILITY, THE AIR FORCE DEVELOPED A PROGRAM FOR THE ADDITION OF MILITARY CARGO CONVERTIBILITY FEATURES DURING INITIAL FABRICATION OF CIVIL PASSENGER AIRCRAFT. THE MODIFICATIONS INCLUDE ADDITION OF A NOSE VISOR OR SIDE-LOADING CARGO ACCESS DOOR AND A STRENGTHENED FLOOR, REMOVABLE CARGO HANDLING KITS, ROLLERS AND RAILS ARE REQUIRED FOR EACH AIRCRAFT TO INSURE COMPATIBILITY WITH THE MILITARY 463L CARGO HANDLING SYSTEM. THE PROGRAM ALSO INCLUDES COMPENSATION (BASED ON A 16-YEAR SÉRVICE LIFE) FOR THE INCREASED OPERATING COSTS RESULTING FROM INCREASED NET OPERATING WEIGHT.

SCOPE OF PROGRAM	æ	IOR	FY	-80	FY	-81	F	82	50	LYEAR	TOT	r A L
	QTY	COST	QTY	COST	QTY	COST	QTY	COSI	QTY	COST	ÇTY	COST
	į	15.0	1 9	6 38.6	1	7 78.9	1	7 85.8	23	23 326.9	43 545.2	545.2
BASIS FOR COST ESTIMATE												
B-747		15.0	7	2.5	7	40.0	7	43.9	9	156.3	11	257.7
DC-10			'n	36.1	Ŋ	38.9			5	54.5	15	129.5
L-1011							\$	41.9	7.7	5 41.9 12 116.1	17	158.0
TOTAL		15 0	9	38.6	1	78.9		15 0 6 38.6 7 78.9 7 85.8 23 326.9	23	326.9	43	43 545.2

METHOD OF IMPLEMENTATION INSTALLATION - CONTRACTOR LEAD TIME - 18 MONTHS

MISSILE PROCUREMENT, AIR FORCE

and accessories therefore, ground handling equipment, and training devices; expansion of public and private plans, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land without regard to section 9774 For construction, procurement, and modification of missiles, rockets, spacecraft and related equipment, including spare parts of title 10, United States Code, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to the approval of title as required by section 355, Revised Statutes, as amended; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things; \$3,042,284 to :emain available for obligation until September 30, 1983 (5 U. S. C. 3109; 10 U. S. C. 2271-79, 2353, 2386 2663, 2672, 2672a,8012, 8062, 9501-02, 9505, 9531-32, 9741-42; 31 U. S. C. 649c, 718; 50 U. S. C. 451, 453, 455; Department of Defense Appropriation Act, 1980 additional legislation to be proposed.

Missile Procurement, Air Force

The state of the s

	catlen code 57-3020-0-1-051	Budget procurement	c			db i gations	1
		1979 actual	1980 est	1981 est.	1979 actual	1980 est	1951 est
Program by activities:	, , t ,						
Direct					ACR 000	141 671	145,687
	3 188 188	66, 100	000,000	700,950	270,000	200 812	956.048
		386, 900	2000	200	100,010 100,010	60.137	102.257
	Modification of inservice missiles	32, 400	07,000	143,949	61, 509	68,301	154,393
4. Spares and	Spares and repair parts	926,300	1,294,465	1,867,712	980, 125	1,025,824	1,276,533
5 other support	ort						
Total direct Reimbursable program (total)	IT (total)	1,473,000	2,182,985 42,857	9,0	٦.	1,616,745 45,255	5,634,916
10 00 Tot' l		1,578,112	2,225,842	3,103,507	1,764,957	1,862,000	2,690,000
Financing From Passers from	, wo Lab (100 m), and the contract of the cont					9	0
		-95,95	-30, 500	-56, 500	565,43-	006'06-	ממי, ממי ממי, ממי
13 00 Trust funds		-5,665	-15,341	7, 2,23	/8/ 11	- 13, 34.	2008-
		2	006-	366	2		
21.40 Unobligated balance aveniable,	and several seleto, where the of years of the series to be seletoned to be seletoned to be seletoned to be seletoned to be seletoned to be seletoned to be seletoned to be seletoned to be seletoned to be seletoned to be seletoned to be selected to			•	-825, 304	-588,951	-956, 277
TO LO LO LO LO LO LO LO LO LO LO LO LO LO	a or to prior year budget plans	-30,550	3,484	``	: : :	: : : :	
23 40 Unobligated balan		1 046			1,946		
		•				•	
24 40 Unobligated belance available. For completion of orfor veer	budget	:	:		588,951	956, 277	1,369,784
25.00 Unobligated balance lapsing		25, 120	. 1		22, 22	. 1	. 1
40.00 Budget authority (appropriation)	rity (appropriation)	1,473,000	2,182,985	3,042,284	1,473,000	2,162,985	3,042,264
Budget suthority:		1.578	2,160,385	3,042,284	1,579,800	2, 160, 385	3,042,284
40.00 Approprietion	Approprietion Transferred to other encounts	-100		:	-106,800		
	Transferred from other accounts	:	7,600		. 1	009'/	
43.00 Appropriation (adjusted)	ר (פּקורתּיפּק)	1,473,000	· -		1,473,000	2,167,985	3,042,284
8			000,61				
	- 2				1,682,268 1,503,574 -1,639,046	1,815,659 1,639,046 -1,847,705	2,828,777 1,847,705 -2,634,482
74.40 Obligates balance, and or year 77.00 Adjustments in expired accounts	xpired accounts				-9,592	. 1 1 2 3 3 3 3 3 3 3 3 3	. 1 (
90.00 dutleys					1,537,223	1,807,000	1,642,000

Missile Procurement, Air Force

28 JAN 80

Town.

				Object Classification (in thousands of dollars)	(6)		
I dent	Identification code 57-3020-0-1-	: :		1979 actum 1980 est 1981 cst	1979 actual	1979 actual 1980 est	1981 cst
9. 0.	Direct obligations: 31.0 Equipment	getions:			,		
					1,672,693	1,816,745	2,634,918
	10101	istal direct coligation	iget ions		1,672,693	1,816,745	2.634.918
					86 81 11 11 11 11 11 11 11 11	11 M 11 M 11 M 11 M 11 M 11 M 11 M 11	
31.0	Reimbursable obligations: 31.0 Equipment	• obligetion	: •				
					92,264	45, 255	55,082
99.0	Total	Total oblications	•			H H H H H H H H H H H H H H H H H H H	
			•		1,764,957	1,862,000	2.690.000

Missile Procurement, Air Force

28 IAN 80

Program and	Program, and Financing (in thousands of dollars)	thousands o	f dollars)		1977 Fiscal	1977 Fiscal year program
dentification code 57-3020-0-1-051	Budge procuremen	Budget plan (amounts for procurement actions programed)	nts for ogramed)		Obligations	
	1979 sctus!	1979 sctus 1980 est 1981 est.	1981 est	1979 actual	1980 est	1981 est.
Program by sctivities: Direct:						
1. Bellistic Bissiles				86,373		
Z. Other missiles	::		:::::::::::::::::::::::::::::::::::::::	9,064		
3. Modification of Inservice Bissiles				7,387		
arted report of the control of the c	::.		: : : :	6,484		
o. dther support			:::::::::::::::::::::::::::::::::::::::	34,707		
	1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1			1 1 1 1 1
Total direct	:	:	:	144,015		
Nelsocheen program (totel)				717		
					1 1 1 1 1 1	
10.00 Total	:	:		144,732	:	•
Financing:						
11 DO Federal August				•		
				-134		
	:::			3,687		: : : : : : : : : : : : : : : : : : : :
21.40 Unobligated balance available, start of vegr			:	ç		
		:		-173,403		:
OR OR HEADT COME TO BE TO DESCRIPTION OF THE STREET	00.00	• • • • • • • • • • • • • • • • • • • •	: : : : :		:	:
	021,62	. 1		25, 120		
40.00 Budget authority (appropriation)						! ! ! ! !
			:			

Missile Procurement, Air Force

Program and Financing (in thousands of dollars) Program by equivities: 1. Bellistic missiles 2. Chart missiles 3. Modification of inservice missiles 4. Sperse and repeir parts 6. Other support Total direct Relmbursable program (total) Financing: Offseting collections from: Faderal form or to prior year budget plans Unobligated belance transferred to other eccounts Unobligated belance evalible, and of year: eccounts Unobligated belance evalible, and of year: for completion of prior year budget plans eccounts Unobligated belance evalible, and of year: for completion of prior year budget plans eccounts			
Fication code 57-3020-0-1-051 procurement actions programed) 1 pail sation missiles 2 dither missiles 3 Hodification of inservice missiles 4 Spares and repair parts 5 Other aupport Total direct Reimburseble program (total) Total Innancing: Grasting collections from: Federal funds Non-federal sources Unobligated belance available, start of year: For completion of prior year budget plans For completion of prior year budget plans Unobligated balance transferred to other For completion of prior year budget plans Unobligated balance evailable, and of year: For completion of prior year budget plans Unobligated balance transferred to other For completion of prior year budget plans For completion of prior year budget plans For completion of prior year budget plans For completion of prior year budget plans	2	1976 Fiscal year program	oer progrem
rogram by activities: Direct	1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gb i gat i ons	0 f 6 8 8 8 8 8 8 8 8
Program by activities: 1. Ballistic missiles 2. Other missiles 3. Modification of inservice missiles 4. Spares and repair parts 6. Other support Total direct Reimbursable program (total) Total Inancing: Offsetting collections from: Federal funds Non-federal sources Non-federal sources Unobligated balance evallable, start of year: For completion of prior year budget plans Unobligated balance transferred to other eccounts Unobligated balance available, end of year: For completion of prior year budget plans Unobligated balance available, and of year: For completion of prior year budget plans For completion of prior year budget plans For completion of prior year budget plans	1979 Sctus	1960 est.	1961 est.
1. Ballistic missiles 2. Other missiles 3. Other missiles 4. Spares and repair parts 5. Other aupport Total direct Total direct Reimbursable program (total) Total Inancing: Offseting collections from: Federal funds Trust funds Tru			
3. Modification of inservice missiles 4. Speres and repair parts 5. Other support Total direct Reimbursable program (total) Total Total Total Total Total Total Unablidated balance available, start of year: For completion of prior year budget plans Whob ideated balance transferred to other Brown accounts Unablidated balance transferred to other For completion of prior year budget plans Unablidated balance transferred to other ### ### ############################		78,110	**
4. Speres and repair parts 5. Other support Total direct Reimbursable program (total) Total		11,371	
Total direct Total direct Reimbursable program (total) Total		5,601	
Total direct Reimbursable program (total) Total Total Inancing: Gfsatting collections from: Federal funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust from: Federal sources Unobligated balance available, start of year: Reprograming from or to prior year budget plans Trust for completed balance transferred to other Unobligated balance available, and of year: For completion of prior year budget plans For completion of prior year budget plans	į	55 G G	. 1
Reimbursable program (total) Total Total Inancing: Gfsatting collections from: Federal funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust from: Federal sources Unobligated balance available, and of year: 1,946 Tor completion of prior year budget plans Trust for completion of prior year budget plans Trust for completion of prior year budget plans			
Total Inancing: Difacting collections from: Federal funds Trust funds Trust funds Trust funds Trust funds Trust funds Trust fords Trust funds Trust funds Trust fords Trust funds Trust f	i		
Federal funds Fracting collections from: Fractar funds Fra		272,468	
Federal funds Trust funds Trus			
Trust funda Trust funda Trust funda Trust funda Trust funda Unobligated balance available, start of year: For completion of prior year budget plans Reprograming from or to prior year budget plans Trust accounts Tr			********
Unobligated betance available, start of year: For completion of prior year budget plans Reprograming from or to prior year budget plans Whobligated betance transferred to other I,946 I,946 For completion of prior year budget plans			
For completion of prior year budget plans Reprograming from or to prior year budget plans Unobligated belance transferred to other accounts Unobligated balance evallable, and of year: For completion of prior year budget plans			• • • • • • • • •
Reprograming from or to prior year budget plans -1,946	-651,901	-272, 468	• • • • • • • • • • • • • • • • • • • •
Unobligated balance evailable, end of year: For completion of prior year budget plans			
For completion of prior year budget plans	1,946		
	272,468	. 1 . 1 . 1 . 1 . 1	• ! • ! • ! • ! • !
40.00 Budget muthority (appropriation)		*	********

Missile Procurement, Air Force

28 JAN 80

	Ī	Missile Procurement, Air Force	Air Force				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	define of dollars)	chousends of	dollars)		1979 Fiscal year program	merbord res
1	8 ESCOLI.	production of the control of the con	Budget plen (#mounts for	ra for		Obligations	
ident!	identification code 67-3020-0-1-051	Drodurement	1980 est.	1961 est.	1979 actual	1980 est.	1981 est.
;							
å	Program by motivities:					2 781	467
-	Direct	66,100	*		796,000	62,239	64,664
					22,977	7,966	1,457
	N. Other Bissiles	32,400			43,907	008,00	42, 424
		926,300			803,244	100,000	
	5. Other support	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1, 172, 977	183, 198	116,825
		1,473,000		5	85, 168	15,744	4, 200
	Total direct (total)	105,112					100
		011			1,258,145	198,942	121,040
10 00	Total						
ų.	Fireroind:		•		-95, 951		*
:			-3.464		-5,665	707 7	
900		-12		8.2	N .		
4.00						-318,483	-121,025
21.40		AAA 6-	3.484		*******		
	2				316,483	121,025	
24.40		. ()	. 1 . 1 . 1 . 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		1.473,000			1,473,000		
40.00	Budget Buthority (Spproprietion)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1			
1	2	1.579,800			1,579,600		
40.00	Appropriation	-106,800	61 61 61 61 61 61 61 61 61 61 61 61 61 6	. 1		1	
00.14		1 473 000	• • • • • • • • • • • • • • • • • • • •		1,473,000		
43.00	O Approprietion (adjusted)						

Missile Procurement, Air Force

26 JAN 80

			Program and Financing (in thousands of dollars)	thousands of	dollers)		1990 Fiscal year progress	Ger program
1dent 14	identification code			Budget plan (amounts for procurement actions programed)	nts for igramed)		Obligetions	
• • • •	4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		1979 actual 1980 est. 1981	1980 est.	1981 est.	1979 actual	1980 est	1981 est.
ŧ	Program by activities:	Ities:						
	1. 8911164		•	108,500			60, 800	34, 700
	D. Other B	1881	:	612,300			363, 500	207, 700
	3. Modific	Modification of inservice missiles	:	72,800			40,800	23, 300
	A. Operes and re-	のひきてきか ちょうひょう ひきつかる ひきつかる ひんしょう しんじゅうしん		1,294,485			645, 259 800 200	328,436
			1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Total direct	•ct		2, 182, 985		* • • • • • • • • • • • • • • • • • • •	20, 200, 408	150,050
	Reimbursable	Reimburesble progrem (total)		42,857	. !		21,12	201
10.00	Totel			2,225,842			1,390,590	642,228
į								
=	Financing: Offsetting col	Defeating collections from:		001			-30,500	
36	TOOPL TOOPL			-11.857			-11,857	
	Non-federal socioss	##UL30#		- 500			- 200	:
	Unobligated be	Unobligated belance evallable, start of year: for completion of orion year budget plans						-835, 252
24.40	Unob! toeted be							
	For completion of	on of prior year budget plans		.	- 1		635,252	193,024
40.00		Budget suthority (appropriation)		2, 162, 985	- 1 - 1 - 1 - 1	**************************************	2, 182, 985	. 1
40.00 42.00	8	ة ع		2,160,385 7,600			2, 160, 385	
43.00	Appropriet	Approprietion (edjusted)	1 . 1 . 1 . 1 . 1 . 1 . 1	2,167,985	1		2,167,985	
60.01	Respondentation			20, 0				

Missile Procurement, Air Force

						28 JAN 80
Le recold	Progrem and Financing (in thousands of dollars)	thousands o	f dollars)	,	1981 Fiscal	1981 Fiscal year program
identification code 57-3020-0-1-051	Budget plan (amprocurement actions	Budget plan (emounts for procurement actions programed)	nts for ogramed)	2 1 1 1 1 4 4 4 4 1 1 1 1 1 1	db iget ions	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1979 actual 1980 est	1980 est	1981 est.	1979 actual	1980 est. 1981 est.	1981 est.
Program by activities: Direct:					9 4 6 8 9 1 1 1 1	
1. Dellistic missiles A. Other missiles	:		139,900	•		110.500
3. Modification of (nashvins missiles			792, 631			683, 684
A Spares and repair parts			96,092			77, 500
d dther support			1.867.712			110, 139
Total disect		:		• 1	. 1	5/9/008
Reimburseble program (total)			3,042,284	:		1,887,496
	. ! . ! . ! . !	. 1	61,223			39, 251
			3, 103, 507		f	1 008 747
Financing: Offseting collections from.						
	:	: : : : : : : : : : : : : : : : : : : :	-56, 500			-56.500
ources ance evellable.			-4,223			-4, 223
For completion of prior year budget plans						1 176 760
40.00 Budget author(tv (approprietion)					. !	001 011 1
	: : : : : : : : : : : : : : : : : : : :	: : : : : : : : : : : : : : : : : : : :	3,042,264			3,042,284

(In Thousands of Dollars)
Program Requirements - FY 1982 - \$3,916,568
Program Requirements - FY 1981 - \$3,042,284
Program Requirements - FY 1980 - \$2,182,985
Program Requirements - FY 1979 - \$1,473,000

PURPOSE AND SCOPE OF APPROPRIATION

It also provides appropriation provides for procurement, installation, and checkout of strategic bellistic missiles and other missiles, modification of in-service missiles, and initial and replenishment spares and repair parts for missile systems. It also profor of in-service missiles, and initial and replenishment support equipment, nonrecurring maintenance of for operational space systems, boosters, payloads, drones, associated ground support equipment, nonrecurring maintenance of industrial facilities, machine tool modernization, and special programs support.

- 1. Ballistic Missiles Provides for procurement of the higher yield MK-12A re-entry vehicle to replace the MK-12 re-entry vehicle on 300 MINUTEMAN and IITAN launch control vehicle on 300 MINUTEMAN III missiles and accommodations for AFSATCOM and 616A equipment in MINUTEMAN and IITAN launch control
- 2. Other Missiles Provides for procurement of Air and Ground Launched Cruise Missiles, peculiar support equipment, and training equipment. Procurement of the AIM-7F/M SPARROW and the AIM-9L/M SIDEWINDER, continues in FY 1981 and FY 1982. Provides for missiles testing and aircrew training. Requests authorization in FY 1982 to initiate procurement of AGM-88 HARM and AGM-65D MAVERICK air-to-ground missiles and Tactical Drones.
- Provides modification of missiles to improve reliability and safety, extend service 11fe, and to incorporate operational improvements based on in-service use. Modification on In-Service Missiles
 - 4. Spares and Repair Parts Provides for initial and replenishment spare and repair parts for ballistic missiles, other missiles, remotely piloted vehicles (RPV), peculiar support equipment, replacement equipment, provisioning documentation, and spares for the modification programs.
- 5. Other Support Provides for special program activities, modernization of Government-owned production facilities, pro-curement of launch vehicles, spacecraft, and peculiar support equipment for operational space systems.

SUNMARY OF REQUIREMENTS	FY 1979 Actual	(in Thousands of Dollare) FY 1980 FY 1981 Estimate Estimate	of Dollars) FY 1981 Estimate	
	\$ 66,100	\$ 108,500	\$ 139,900	
Balilatic Higgs From	386,900	612,300	792,631	
worst tratton of in-service missiles	32,400	72,800	98,092	
Month tourist on a second to the second to t	61,300	94,900	143,949	
other support	926,300	1,294,485	1,867,712	
AT GOOD AT A COLUMN AT A COLUM	\$1,473,000	\$2,182,985	\$3,042,284	
TOIAL DIRECT FRUGRAMMENT FOR THE PROGRAMMENT F	105,112	42,857	61,223	
TOTAL PROGRAM REQUIREMENTS (CURRENT)	\$1,578,112	\$2,225,842	\$3,103,507	
Less: Portion of program to be obligated In subsequent fiscal years	319,967	835,252	1,176,760	
Plus: Obligations incurred against prior year program funds	506,812	471,410	763,253	
TOTAL OBJICATIONS	\$1,764,957	\$1,862,000	\$2,690,000	

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SUMMARY OF PROGRAM REQUIREMENTS	(In Thousands of Dollars)
	FY 1982 Estimate
Ballistic missilesBallistic missiles	\$ 98,574
Other missiles	1,265,084
Modification of in-service missiles	132,906
Spares and repair parts	151,793
Other Support	2,268,211
TOTAL DIRECT PROGRAM	\$3,916,568

•

ACTIVITY: 1, Ballistic Missiles

(In Thousands of Dollars)

Program Requirements - FY 1982 - \$ 98,574

Program Requirements - FY 1981 - \$139,900

Program Requirements - FY 1980 - \$108,500

Program Requirements - FY 1979 - \$ 66,100

PART I - PURPOSE AND SCOPE

direct support of operational ballistic missiles including ground guidance and control systems, equipment to maintain the operaincludes system trainers for proficiency training of maintenance and operator crews. This activity also provides for the modernization of the ballistic missile launch and launch control facilities and the integration of new equipment into the launch control tional status of the system, specialized ground handling equipment, and system trainers. The ground equipment is used to transinstalled power units, communications guidance and control equipment, re-entry vehicle (excluding nuclear payloads), instruments and auxiliary equipment installed in the missiles, and penetration aids. It also provides for peculiar ground support equipment This activity provides for complete operational intercontinental ballistic missiles, including the airframe structure and The specialized training equipment center. It includes hardware, training equipment, data and site activation effort required to modernize ballistic missile port, assemble and disassemble, maintain, checkout, launch, and guide ballistic missiles.

PART II - JUSTIFICATION OF FUNDS REQUESTED

underground silos to survive an attack by the enemy and retain a capability to perform the assigned mission. MINUTEMAN II carries one re-entry vehicle and has the capability to carry chaff and penetration aids to defeat area type defenses. MINULEMAN III has a The higher yield of the The MINUTEMAN missile is a three stage solid propellant Intercontinental Ballistic Missile (ICBM), hardened and dispersed in Under ICBM C3 Integration, procurement will be continued for MINUTEMAN and TITAN launch control center accommodations for installation of Air Force Satellite Communications system, Strategic Air Command Digital Network, and 616A equipment. These added capabilities will increase the reliability of emergency war order reception. (RDT&E PE 11213F) Post Boost Vehicle for the deployment of two or three NK-12 re-entry vehicles and chaff. The FY 1981 request provides funds to MK-12A will provide MINUTEMAN with an improved capability against targets designated by the Single Integrated Operational Plan. continue procurement of the MK-12A re-entry vehicle as a replacement for che MK-12 on 300 MINUTEMAN IIIs.

The following tabulation shows the composition of ballistic missile program requirements:

		•		
	FY 1979	FY 1980	FY 1981	FY 1982
Weapon System Cost	\$59,900	\$ 91,958	\$ 88,113	\$37,263
Advance Procurement (PY -)	-3,500	-9,700	-4,800	-3,644
Current Year Program	26,400	82,258	83,313	33,619
Advance Procurement (CY +)	9,700	4,800	3,644	
WEAPON SYSTEM TOTAL	66,100	87,058	86,957	33,619
(Procurement Quantity)				
ICBM C ³ INTEGRATION		21,442	25,943	64,955
TOTAL BUDGET ACTIVITY 1	\$66,100	\$108,500	\$139,900	\$98,574

Other Miss, us ۲, ACTIVITY:

792,631 612,300 386,900 Program Requirements - FY 1982 - \$1,265,084 Dollars) Requirements - FY 1980 -Program Requirements - FY 1979 -(In Thousands of Program Program

PART I - PURPOSE AND SCOPE

This activity provides funds for the weapon system cost for procurement of strategic air-to-ground and ground-to-ground not safe and target drones. Weapon system cost includes flyaway costs (airframe, propulsion equipment, electronics and armament) and peculiar support equipment (PSE), system peculiar training equipment and missiles, tactical air-to-air and iir-to-ground missiles and target drones. publications and technical data.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The FY 1981 budget estimate includes requests for funds for the procurement of the Air Launched Cruise Missile (ALCM), the Ground Launched Cruise Missile (GLCM), the SPARROW and SIDEWINDER air-to-air tactical missiles, and target drones. Descriptions and justification for the requests follow:

The ALCM will expand the lethal foo'print of penetrating strategic bomber forces by providing additional target coverage and routing flexibility and by stressing enemy defenses. FY 81 funds will procure 480 missiles and support equipment. (RDI&E PE64361F) AGM-86B/AGM-199, ALCM - The ALCM is a small, long range, accurate, nuclear armed, air-to-ground cruise missile planned for use on the B-52G ... nor. The missile is internally guided by an inert.al navigation system which is updated by terrain contour matching.

BGM-109 GLCM - The GLCM is a small, long range, accurate, ground-to-ground cruise missile which will provide increased firepower (111 cover procurement of eleven missiles, six transporter/erector/launchers, and six launch control centers. (RDIGE PE64362F) for theater forces and release Quick Reaction Alert aircraft to participate in the conventional role, The cruise missile will combine with command, control, communication, and launch control hardware/software to comprise the weapon system. FY 1981 fund

AIM-7F/M SPARROW - The Sparrow is a rocket propelled air-to-air missile guided by a solid state radar homing device with dual mode continuous wave (CW) or pulse doppler (PD). The AIM-7F/M was developed to provide for defense against enemy aircraft and to maintain air superiority. The funds requested for FY 1981 will provide for the continued procurement of the AIM-7M with the advanced monpulse seeker. (RDI&E PE27161F)

annular blast fragmentation warhead, all combining to result in increased lethality. The "unds requested for FY 1981 will provide AIM-9L/M SIDEWINDER - The SIDEWINDER is designed for close-in "dogfight" combat against highly maneuverable fighter aircraft. Designed for visual attack, the SIDEWINDER has an improved infrared seeker with solid electronics, an active optical fuze, and an Designed for visual attack, the SIDEWINDER has an improved infrared seeker with solid electronics, an active optical fuze, and an for the initial procurement of the improved "M" version of the missile featuring improved guidance and control and reduced smoke rocket motor. (RDT&E PE 27161F) AGN-65D MAVERICK - The AUM 65D version of the MAVERICK missile incorporates Imaging Infrared (11R), using thermal detection technology to provide an effective 24 hour day/n/ght/adverse weather weapon. There are no procurement funds requested in FY 1981. The PY 1982 authorization requested will initiate the production effort.

Target Drones - Target Drones are remotely piloted vehicles which are used to simulate subsonic and supersoni, enemy aircraft. They are used to develop air-to-air missile factics, train aircrews, and to test and evaluate direcaft and missile weapon systems. The funds requested for FY 1982 will provide for the continued procurement of full scale and sub-scale maneuvering target drones. (RDT&E PE35116F)

quency coverage in a single seeker, long stand off range and the ability to change to different target frequencies while the missile is in flight. There are no procurement funds requested in FY 1981. The FY 1982 authorization requested will initiate the production affort for the Air Force. (PE 27162F) AGM-88A HARM - The AGM-88A HARM is an air-to-surface anti-radiation missile designed to damage or supress radar-directed air defense systems. Advanced features include moderate size and weight, high speed, high accuracy, high sensitivity, wideband

Tactical Drones - A small expendable unmanned afreraft named the LOCUST will be used as a low cost air defense suppression system. It will carry a radar seeker for target acquisition and a fragmentary warhead to damage/destroy enemy air defense systems. It will be ground launched and will operate autonomously, requiring no data link for command and control. There are no procurement will be ground launched and will operate autonomously, requiring no data link for command and control. (RDT&E PE64746F) funds requested in FY 1981. The FY 1982 authori-ation requested will initiate the production effort.

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Weapon System	FY 1979	(In Thousand FY 1980	(In Thousands of Dollars) FY 1980 FY 1981
Air Launched Cruise Missile (ALCM)	\$ 90.800	\$364.400	\$543,605
Ground Launched Cruise Missile (GLCM)	20,200	8,200	87.868
AIM-7F/M Sparrow	122.800	124,200	115 909
AIM-9L/M Sidewinder	95,500	86.800	2004611
AGM-45A Shrike	12.000		43,420
AGM-65A Maverick	34.300	007 8	
AGM-65D Maverick (IIR)		00160	
AGM-88A Harm			
Target Drones	11.300	20,300	1 922
Tartical Dropes		•	73047

والمراجعة والمراجعة والمراجعة والمعادة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة

\$511,047 243,434 117,743 40,665

FY 1982

191,954 136,144 19,100 4,997

\$1,265,084

\$792,631

\$612,300

\$386,900

Total

(In Thousands of Dollars)

Program Requirements - FY 1982 - \$132,906

Program Requirements - FY 1981 - \$ 98,092

Program Requirements - FY 1980 - \$ 72,800

Program Requirements - FY 1979 - \$ 32,400

ACTIVITY: 3. Modification of In-Service Missiles

PART I - PURPOSE AND SCOPE

This activity provides for modification of missile systems and drones, direct ground support equipment, missile These costs include modification kits, revised handbooks, maintainability by incorporating approved modifications resulting from technical advances, service use, and conand entin arius effort. These programs are designed to improve reliability, enhance performance, and increase training equipment, and components of these equipments. tinuing test programs,

PART II - JUSTIFICATION OF FUNDS REQUESTED

program was reviewed to determine the priority of essential mission requirements for inclusion in the FY 1981 Budget to enable the strategic, tactical, and support forces to maintain superiority over hostile forces. The modification figuration. Advances in technology and long retention necessitate the modification of in-service missile systems The FY 1981 modification program consists of (1) missile systems Class IV modifications which are necessary for safety improvements, extension of service life, and to incorporate operational improvements after a missile has been placed in the inventory, (2) a Class V modification to MINUTEMAN launch facilities to provide extended survivable power; and (3) an update modification to convert AIM-7F Sparrow missiles to the production line con-Request. Class I. Codification (FY 1981 \$71,569, FY 1982 \$72,882) The FY 1981 program will provide for modifications to improjects. The P. 1982 program will continue modifications on these systems except the BQM-34 Target Drone and the AIN-4 Falcon. (Includes NPIP) prove rollability, maintainability, and extend service life of the BQM-34 Target Drone, AGM-45 Shrike, AIM-4 Falcor, L3:-25 IITAN, AGM-39 SRAM, LGM-30 MINUTEMAN, the Emergency Rocket Communications System, and classified

IC"-30F G MINGERMAN IT CLASS V Modification (FY 1981 \$19,437, FY 1982 \$52,912) This program will replace lead acid batteries in MINGEMAN launch facilities with new lithium power cells. These new cells are expected to provide emergency, survivable power for a period times as long as that provided by the present system. The FY 1981 and FY 1982 programs will modify 50 and 130 launch facilities, respectively.

AIM-IF Sparrow (Palate (FY 1981 \$7,086, FY 1982 \$7,112) This program provides for the correction of deficiencies detected during follow-on operational test and evaluation.

The following table summarizes modification update requirements:

FY 1982	\$72,882	52,912	7,112	\$132,906
(In Thousands of Dollars) FY 1980 FY 1981	\$71,569	19,437	7,086	\$98,092
(In Thousan FY 1980	\$41,300	900	5,000	\$72,800
FY 1979	\$31,500	006		\$32,400
The following capte Summatters most respectively.	REQUIREMENT Class IV Modifications (Includes NFIP)	Class V Modifications: CIM-10 BOMARC LCY-30 F/G MINUTEMAN II/III Target Drones	Update: AIM-7E Sparrow AGM-45A SHRIKE	TOTAL

ACTIVITY: 4. Spares and Repair Parts

(In Thousands of Dollars)

Program Requirements - FY 1982 - \$151,793

Program Requirements - FY 1981 - \$143,949

Program Requirements - FY 1980 - \$ 94,900

Program Requirements - FY 1979 - \$ 61,300

PART I - PURPOSE AND SCOPE

This activity provides for the procurement of initial and replenishment spares and repair parts for ballistic missiles, other missiles, target drones, peculiar support equipment, training equipment, replacement equipment, provisioning documentation, and spares for modification programs.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The funds for FY 1981 and FY 1982 will provide for the procurement of initial spares, replacement equipment, and replenishment Replacement spares. Initial spares are investment type items normally procured in support of the weapon system delivery schedule. Replacem equipment includes peculiar support equipment in support of out-of-production systems, equipment common to several systems, and equipment required by specialized repair activities. Replanishment spares include components and repair parts required for the continued support of missiles, drones and related support equipment maintained in the operational inventory. The FY 1981/82 requirements for spares and repair parts were developed by detailed provisioning actions which consider operational deployment of the end item, usage rate trends and, for time-change items, the service life of the weapon system.

The breakdown of Spares and Repair Parts requirements follows:

	FY 1979	(In Thousan FY 1980	(In Thousands of Dollars) FY 1980 FY 1981	FY 1982
INITIAL SPARES (1/S)				
MINUTEMAN, Weapon System	\$ 2,600	\$ 700	\$ 709	\$ 508
Air Launched Cruise Missile	3,400	6,800	27,535	5,994
Ground Launched Cruise Missile			9,313	16,663
SPARROW		400	2,633	4,870
SIDEWINDER	006	190	2,227	2,445
SHRIKE	909			
Imaging Infra-Red Maverick HARM				4,003 9,652
Target Drones	260	200	202	1,196
TOTAL	7,700	8,700	42,619	45,331
Modification I/S	1,200	1,630	2,631	5,001
Replacement Equipment	24,700	31,570	33,406	34,830
Replenishment Spares	27,700	53,000	65,243	66,631
TOTAL SPARES 6 REPAIR PARTS	\$61,300	\$94,900	\$143,949	\$151,793

Other Support

Program Requirements - FY 1982 - \$2,268,211 Program Requirements - FY 1981 - \$1,867,712 Program Requirements - FY 1980 - \$1,294,485 Program Requirements - FY 1979 - \$ 926,300 (In Thousands of Dollars)

PART I - PURPOSE AND SCOPE

and equipment, preparation, crating, and shipping of Government tools, improved manufacturing methods, and environmental protection measures instituted at Government-owned plants. Space programs provide launch vehicles, space vehicles, peculiar ground support equipment, and miscellaneous launch support requirements other than those chargeable to the Operations and Maintenance appropriaexpansion or modification of Government-owned production facilities, nonrecurring maintenance and modernization of machine tools This activity provides for industrial facilities, space programs, and special programs. Industrial facilities provide for

PART II - JUSTIFICATION OF FUNDS REQUESTED

The FY 1981 budget request of \$1,867,712 includes \$509,282 for operational space programs, \$18,930 for industrial facilities, and \$1,339,500 for special programs. The FY 1982 request for authorization of \$2,268,211 includes \$574,689 for operational space programs, \$15,304 for industrial facilities and \$1,678,218 for special programs.

Tasks under this program apply technology to develop COMSEC products for use in Air Force weapon systems, and supports COMSEC - Thir program supports the national objective of providing communications security on all critical communications the Air Force Security Secure Tempest Testing and Analysis program. This program is an integral part of the national COMSEC program, which is administered by the National Security Agency. The FY 1981 and FY 1982 funds provide for the procurement of peculiar communications equipment for the program. (RDT&E PE 33401F) NAVSTAR Global Positioning System (GPS) - The operational NAVSTAR GPS will consist of 24 satellites, a ground control station and approximately 25,000 sets of user equipment for all services. Each user will be able to precisely determine his position (to better than two meter accuracy) and velocity (to a few centimeters per second), in three dimensions, anywhere in the world, in all types of weather conditions. There are no missile procurement funds requested for FY 1981. The FY 1982 funds provide for the (RDT&E PE 64778F) procurement of two operational spacecraft.

Support Program, the Defense Meteorological Satellite Program, the Satellite Data System, and the Deep Space Surveillance System. The FY 1981 funds are for the purchase of spares for Interface Verification Equipment and the Vandenberg AFB launch processing system. The FY 1982 funds are for the purchase of three IUS and spares for Interface Verification Equipment and the Vandenberg AFB launch processing system. (RDT&E PE 63411F, 35171F) Space Launch Support - This program provides the Inertial Upper Stages (IUS) and spares support for Air Force operational space programs which include the NAVSTAR Global Positioning Systems, the Defense Satellite Communications System, the Defense ArB launch processing system.

Satellite Communications Program (FLTSATCOM) has the high priority mission of supporting communications for the strategic forces The FY 1982 request for authorization is for the procurement of long lead components, launch support services, satellite modifi-The FY 1981 funds will provide a continuing replenishment launch capability, procurement of one satellite, contractor orbital incentives and satellite readiness configuration testing Satellite Data System (SDS) - The SDS is a multi-purpose communications system which in conjunction with the Navy Fleet and between Air Force Satellite Control Facility ground stations, cations and propellants. (RDT&E PE 35158F)

included in FY 1982 are funds to provide engineering services, launch and on-orbit operation of one satellite, (RDIGE PE 35160F) for one complete satellite and launch system. In addition, procurement of three lonospheric sensors and one microwave imaging Defense Meteorological Satellite Program (DMSP) - DMSP is a system which provides timely high-quality visual and infrared cloud imagery and other meteorological information to support operations of the U.S. armed forces. The FY 1981 funds provide sensor are planned for FY 1981. Engineering support and services for satellite launch and on-orbit operations will also be procured. In FY 1982, funds provide for procurement of special sensors to provide meteorological and ionospheric data.

readiness including satellite storage and testing, other related support, General System Engineering/Integration, and DSP Augmenta-Defense Support Program - The DSP satellites contain sensors which provide near real-time data to the National Command Authorities and other designated users. The FY 1981 funds are for Inertial Upper Stage (IUS)/payload compatibility, launch (RDT&E PE 12431F) tion. The ry 1982 funds will continue to support the above FY 1981 efforts, plus build a new satellite. Defense Satellite Communications System (DSCS) - The Defense Satellite Communications System provides Super High Frequency (SHF) satellite communications for secure voice and high data rate transmissions in support of unique and vital national security Program consists of a space segment, which is an Air Force responsibility, a multi-user terminal segment of ground, airborne, and naval elements, and an operational control segment. The authorized DSCS Space Segment consists of four operational and two capability. DSCS III satellites will include an UHF and, in future, SHF capability for Emergency Action Message dissemination. satellites will be replenished with DSCS III satellites which will provide increased channelization, flexibility, and anti-jam overall DSCS program management, systems engineering, orbital operations, and satellite communications architecture. The DSCS requirements for worldwide military command and control, crises management, intelligence data relay, early warning detection, treaty monitoring and surveillance information, and diplomatic traffic. The Defense Communications Agency is responsible for In-orbit spare satellites positioned over four geographical areas to provide global (less polar) coverage. Existing DSCS II Earth terminals to meet Air Force communications requirements are procured through the U.S. Army.

support will be continued. Two Inertial Upper Stage (IUS) integration kits for interface compatibility between the universal IUS and the DSCS satellite will be procured. Also, DSCS III Shuttle compatibility modifications will be initiated and the solid state time integration associated with transitioning from expendable launch vehicles to the Shuttle and Federal Contract Research Center The FY 81 funds provide for the acquisition of four sets of advance buy items for the initial four DSCS III production satelpropellants, satellite-launch vehicle integration, and partial payment for boosters previously procured are also funded. First lites to be acquired in FY 1982 and for DSCS III qualification satellite refurbishment. Expendable launch vehicle support for amplifier development continued. In FY 1982, four DSCS III production satellites will be acquired and first time integration, launch vehicle support, solid state amplifier development, and Shuttle compatibility modifications continue. (RDT&E PE 33110F Air Force Satellite Communications System (AFSATCOM) - The AFSATCOM system is a satellite based Ultra High Frequency communications system with transponders carried as secondary payloads on host spacecraft. The AFSATCOM system provides direct communications between the National Command Authorities, the JCS, the military CINC's and the nuclear capable forces. The FY 81 funds procure 4 single channel transponders (SCT) for integration into the DSCS III spacecraft. There are no FY 1982 funds. (RDT&E PE 33601F)

maintain critical Titan III production capability until Space Shuttle Initial Operational Capability at the Kennedy Space Center, The FY 1981 funds are to continue efforts to Space Boosters - The Space Boosters program provides consolidated launch support for the requirements common to USAF space programs and an austere expendable launch vehicle backup to guarantee the launch of critical USAF operational payloads in the Florida. Maintenance of this capability involves procuring two additional Titan III (34)D backup vehicles (advance buy to be decision points to advance these two vehicles through major pro-(RDT&E PE 35119F) event that the Space Shuttle program is delayed or the Orbiter fleet is grounded. duction stages keyed to critical Space Shuttle development milestones. initiated by FY 1980 reprogramming request) with

which will be capable of transporting payloads to low earth orbit. It carry payloads to higher operational orbits, the Air Force and FY 1982 provide for the procurement of common and unique support equipment for the Vandenberg AFB (VAFB) shuttle launch site, the VAFB Launch Processing System (VLPS) equipment, the unique ground and airborne support equipment for the IUS and the initial spares to support this equipment. (RDT&E PE 64311F, 64411F) will build an unmanned Inertial Upper Stage (IUS), The IUS will be used by both DOD and NASA. The funds requested for FY 1981 Space Shuttle - The space shuttle is a NASA development program to provide an advanced, reusable, manned orbiter vehicle

A summary of the funding requirements for space programs is as follows:

	FY 1979	FY 1980	FY 1981	FY 1982
COMSEC NAVSTAR GPS	\$ 19,700	\$ 20,509	\$ 15,690	\$ 13,447
Space Launch Support Satellite Data Sverem	17,00	25,905	709	29,502
Defense Meteorological Satellite Program	29,101	21,600	93,823 42,719	40,023 21,101
Defense Support Program Defense Satellite Communications System	123,400	103,862	51,931	192,280
Air Force Satellite Communications System Space Boosters	11,500	192	13,464	113,433
Space Shuttle	91,700	162,500	131,093	93,227
TOTAL SPACE PROGRAMS	\$344,301	\$475,091	\$509,282	\$574,689

Industrial Facilities (FY 81, \$18,930; FY 82 \$15,304) - This is a continuing program associated with Government owned pro-duction facilities which includes requirements for plant expansions; pac.ing crating, and handling of plant equipment; capital-type rehabilitation; environmental protection, manufacturing methods; and energy conservation.

<u>Special Programs</u> (FY 81, \$1,339,500; FY 82, \$1,678,218). Special Program requirements are of a sensitive nature requiring special access. (Includes NFI'' & Special Update)

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COMPARISON OF FY 1981 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1980 BUDGET WITH FY 1981 PROGRAM REQUIREMENTS AS SHOWN IN FY 1981 BUDGET

SUMMARY OF PRUGRAM REQUIREMENTS (In Thousands of Dollars)

	The first of the political of political states of the	DOLLALS/	
	Program	Program	Increase (+)
	Requirements	Requirements	or or
	Per 1980 Budget	Per 1981 Budget	Decrease (-)
ballistic Missiles	\$ 130,795	\$ 139,900	\$ + 9.105
Other Missiles	925,207	792,631	182 576
Modification of In-Service Missiles	92,371	98 092	102,77
Sports and Donoft Donte		10,00	17/16
opares and nepart raits	113, 782	143,949	+ 30,167
Ocner support	1,332,545	1,867,712	+ 535 167
Reimbursable Program		61 223	107,000
		01,223	+ 01,223
	\$2.644.700	\$3 103 507	0000
	0016110621	100,001,00	4 + 428,80/

Ballistic Missiles (\$ +9,105) This increase was caused by a combination of adding the Air Launch Control System Phase III to FY 81 Budget for \$1.417 and changes caused by revised economic escalation indices.

Other Missiles (\$ -182,576) This net increase was due to the following program changes:

Air Launched Cruise Missiles (\$ +82,305 Increase was caused by a deferral of nonrecurring costs from FY 1980 to 1981, and revised economic escalation indices.

Ground Launched Cruise Missile (\$ -61,232) The net decrease was caused by a reduction in the buy quantity from 45 to 11 missiles and increases caused by revised economic escalation indices.

of 50 AIM-7F/M Sparrow (\$ +11,908) Increase is due to revised economic escalation indices offset by a decrease in quantity missiles.

AIM-9L/M Sidewinder (\$ +3,828) Increase is due to a change in the missile model and revised escalat..on indices.

Target Drones (\$ -5,678) Decrease is because it was decided to defer the procurement of sub-scale target drones.

The following programs decreased because initiation of procurement was deferred until FY 1982.

AGM-65D Maverick (\$ -146,900) AGM-88A HARM (\$ -56,000) Tactical Drones (\$ -10,807)

- 3. Modification of in-Service Missiles (\$ +5,721) Class IV funds were increased (\$ +10,269) due to a new requirement for modification of the Shrike fuze antenna, increases in the Shrike gravity bias modification program, and escalation applicable to all Class IV modifications. Minuteman Class V funds for Extended Survivable Power were increased (\$ +1,166) for economic escalation adjustments. The AIM-7F Update program was increased (\$ +86) for economic escalation adjustment. The Minuteman update program was deleted (\$ -2,300) due to the lack of definitive retrofit requirements. The Shrike Update requirement was update program was deleted (\$ -2,300) due to the termination of missile procurement before production incorporation.
 - Spares and Repair Parts (\$ +30,167) The program was increased due to the increase in programs to be supported and the revised economic escalation indices.
- a requirement for a spacecraft; Defense Satellite Communications System (DSCS) (\$ -49,475) decreased due to a decision to slip the procurement of four DSCS III spacecraft to FY 82; Space Boosters (\$+31,258) program increased as a risult of procuring two additional Titan back-up boosters; Space Shuttle (\$ +33,524) increased due to additional procurement of Vandenberg AFB items; Industrial Facilities (\$ +8,132) was increased due to an increase in the manufacturing technology program as a result increased emphasis on the MX, AMRAAM and Gruise Missile programs; Special Program (\$ +605,657) were increased by additional of last to the manufacturing technology program of the manufacturing technology program is a result and second to the MX, AMRAAM and Gruise Missile programs; Special Program (\$ +605,657) were increased by additional programs and the MX 5. Other Support (\$ +535,167) - Significant changes were related to: Space Launch Support (\$ -57,202) decreased as a result of of deletion of procurement of seven Inertial Upper Stages (IUS); Satellite Data System (\$ -13,632) decrease is a result of reduction of excess funds by OSD; Defense Meteorological Satellite Program (DMSP) (\$ -13,006) decreased du to the deletion of classified requirements. Other increases to programs were a result of changes in the escalation rates.
 - Reimbursable Program (\$ +61,223) Reimbursements for FY 81 were not estimated in the FY 80 budget.

COMPARISON OF FY 1980 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1980 BUDGET WITH FY 1980 PROGRAM REQUIREMENTS AS SHOWN IN FY 1981 BUDGET

	I Jo spusands of I)ollars)	
SUMMARY OF PROGRAM KEQUIKEMENTS (III SUMMARY P	MENTS ATH THESE	Program	Increase (+)
	Program		10
	Requirements	Rejulrements	Doctosse (-)
	Per 1980 Budget	Per 1981 Budget	nerten (
			44 :
	001	\$ 108,500	S/N S
	\$ 108,500	000 011	36 800
Rallistic Missiles	649,100	612,300	2) %
		72 800	2 2
Other Missiles	72,800	000 10	U/N
Walification of In-Service Missiles	94,900	94,900	48 815
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000 000	1 294,485	00,000
Spares and Kepail fales	1,363,300	1.0 85.7	+ 87
Other Support	42,770	42,031	\$ 105 52B
Reimbursables	\$2,331,370	\$2,225,842	120,001-0
Total Fiscal Year Program	•		

(N/C) Ballistic Missiles

2. Other Missiles (\$ -36,800) - Congress reduced the AIM-7F/M Sparrow program by \$20,000 and transferred \$16,800 of the Ground Launched Cruise Missile program to the RDT&E appropriation.

Modification of In-Service Missiles (N/C) . ب

Spares and Repair Parts (N/C)

5. Other Support (\$ -68,815) - DMSP (\$ -6,200) decreased due to deletion of funds by Congress for procurement of primary sensor for block 6 qualification test model; DSCS (\$ -61,115) decreased as a result of Congressional action to delete DSCS II satellites for block 6 qualification test model; DSCS (\$ -61,115) decreased as a result of OSD decision to procure long 17 and 18, and a reprogramming to Bpace Boosters; Space Boosters (+15,900) increased as a result of OSD decision to procure long lead items for two additional TITAN boosters; Space Shuttle (\$-3,400) decreased as a result of Congressional action; Special Programs (\$ -14,000) were reduced by Congressional action.

Reimbursables (\$ +87) - This minor increase is due to a revised estimate of customer orders. 9

COMPARISON OF FY 1980 FINANCING AS REFLECTED IN FY 198C BUDGET WITH FY 1980 FINANCING AS SHOWN IN FY 1981 BUDGET

	1	(in Thousands of Dollars)	f Dollars)	
	Financing Per FY 1980 Budget	Finanacing Per FY 1981 Budget	Increase (+) or Decrease(-)	
Program requirements (Total)	\$2,331,370	\$2,225,842	\$-105,528	İ
Program réquirements (Service account)	(2,288,600) (42,770)	(2,182,985) (42,857)	(-105,615) (+87)	
Less:				
Anticipated reimbursements	42,770	42,857 15,000 7,600	+87 +15,000 +7,600	
Appropriation	\$2,288,600	\$2,160,385	\$-128,215	

EXPLANATION O' CHANGES IN FINANCING

The Fiscal Year 1980 program has bee decreased \$105,528 thousand since submission of the FY 1980 budget. Adjustments by categories are explained below:

- Anticipated Reimbursements. The increase is due to a revised estimate of customer orders anticipated in FY 1980.
- 2. Reappropriation. The increase of \$15,000 thousand is a transfer from FY 1977 Aircraft Procurement to finance FY 1980, by Congressional direction, specified in P.L. 9t-154.
- 3. Transferred from Other Accounts. \$7,600 thousand is proposed for transfer from other Other Procurement, Air Force FY 1980.

COMPARISON OF FY 1979 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1980 BUDGET WITH FY 1979 PROGRAM REQUIREMENTS AS

SHOWN IN FY 1981 BUDGET

Ballistic Missiles (N/C)

2. Other Missiles (\$ -24,700) - AIM-7F Sparrow funds of \$4,300; AIM-9L Sidewinder funds of \$1,900 and AGM-45A Shrike funds of \$18,500 were reprogrammed to 06M.

3. Modification of In-Service Missiles (\$ -1,400) - Minuteman Class IV modification funds were reprogrammed to cover a shortfall in the Operations and Maintenance, Defense Agencies appropriation.

Spares and Repair Parts (N/C)

5. Other Support (\$ -14,400) - DMSP (\$ -15,099) was reduced by a decision to delay one spacecraft; AFSATCOM (\$ -4,300) was reduced by internal reprogramming to other programs due to a decision to delete procurement of DSCS III single channel transponders; Industrial Facilities (\$ +4,999) manufacturing technology program was increased as a result of the increased emphasis on the MX, AMRAAM and Cruise Missile programs.

6. Reimbursable Program (\$ +95,312) - This increase is because it was determined that reimbursments slated for the RDI&E appropriation were a proper charge to the Missile Procurement Appropriation.

COMPARISON OF FY 1979 FINANCING AS REFLECTED IN FY 1980 BUDGET WITH THE FY 1979 FINANCING AS SHOWN IN THE FY 1981 BUDGET

		(in Thousands of Dollars)	f Dollars)	
	Financing Per FY 1980 Budget	Financing Per FY 1981 Budget	Increase (+) or Decrease (-)	
	\$1,523,200	\$1,578,112	\$+54,812	
Program Requirements (Total)	(1,513,500)	(1,473,000)	-40,500 +95,312	
Less: Anticipated Reimbursements.	6,800	105,112	+95,312	
: ppV	66,300	106,800	+40,500	
accountsa	\$1,579,800	\$1,579,800	•	
Appropriation				

EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1979 program has been increased \$54,813 thousand since submission of the 1980 budget. Adjustments by category of financing are explained below:

- Anticipated Reimbursements: The increase of \$95,312 thousand is due to receipt of actual customer orders in FY 1979.
- Transferred to Other Accounts. \$29,000 thousand was transferred to Operation and Maintenance, Air Force FY 1979, \$6,500 thousand was transferred was transferred to Claims, Defense FY 1979, in accordance with section 834 of the DoD Appropriation Act of 1979.

ANALYSIS OF UNOBLIGATED BALANCES - 30 SEPTEMBER 1981
SUMMARY BY CATEGORY
(In Millions of Dollars)

		FY 1980	FY 1981	Total	% of Total Unobligated
Mil	Military Interdepartmental Purchase Requests: (MIPRs).	\$23.0	\$140.0	\$163.0	.11.92
S	Completing Contractual Arrangements:	37.8	230.7	268.5	19.6%
÷	.,	49.0	298.9	347.9	25.4%
۵	Price Redeterminations & &	27.4	167.1	194.5	14.2%
;					
2	Full Funding Policy:	38.1	231.8	269.9	19.7%
ė	Delayed/Revised Program Meledse	7.71	108.3	126.0	9.2%
۵.	Engineering Changes	0.1019	\$1,176.8	\$1,369.8	
	TOTAL UNOBLIGATED FY 1981	0.5516			

EXPLANATION

equipment. Unobligated balances are required for programmed and needed items on which contracts have not reached the obligational tailed specifications, issue Requests For Proposals (RFFs) and to negotiate and finalize contracts for procurement of investment Procurement funds are available for obligation for three years because of the extensive lead time required to stage by the end of the fiscal year because of the procurement process.

The following are illustrative of the reasons which will cause unobligated balances at the end of each fiscal year:

- 1. Military Interdepartmental Purchase Request (MIPRs) (\$163.0 million) These documents are used to request one of the other military services to procure Air Force requirements in conjunction with their own or with those of another service. Funds to quently, contractual arrangements will have been completed and the obligation incurred but notification from the other service is support these requests remain unobligated until notification of contract award is received from the other military service. Frenot raceived in time for recording in Air Force records prior to or at the end of a fiscal year.
- 2. Completing Contractual Arrangements:
- a. Specification Definitions (\$268.5 million) Unobligated funds result when specifications for newly introduced items cannot be definitized in time to permit contract negotiation prior to or at the end of the fiscal year.
- Pinal obligation for contracts must await negotiations on agreed target-ceiling formulae. In most large contracts, the rewards and penalties of multiple incentives (cost, performance and schedule) cannot be determined and obligated prior to the end of the fiscal year. Funds are reserved for these purposes when upward adjustments seem likely; however, obligation does not occur until a formal redetermination has been agreed upon and the contract amended. Unobligated funds at year end result.
- c. Definitization of Contracts (\$194.5 million) Procurements of complex systems and large material orders may occaraionally be initiated under letter contracts. The letter contract generates a partial obligation of the total program value with the balance remaining committed but unobligated pending definitization and negotiation of the detailed contract terms. These actions can carry over the end of a fiscal year and result in unobligated funds.

3. Full Funding Policy - This policy, enunciated in DoD Directive 7200.4 (October 30, 1969) provides that adequate appropriations and funds must be available in a given fiscal year for obligation, committed or set aside in a reserve account in an aggregrams. Unobligated balances at the end of a fiscal year are a consequence of this policy and accrue in the following categories: gate amount sufficient to complete the procurement of a specified number of end items and advance procurement for approved pro-

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- a. Delayed/Revised Frogram Release (\$269.9 million) Adjustments in quantities or specifications of other equipment to meet changing situations or to exploit engineering improvements generally require prior approval of reprogramming requests which can delay program release and direction until well into the fiscal year, thus delaying the obligation of funds by the end of the fiscal year: Also, approved and funded programs are sometimes delayed/undirected beyond 30 September pending decision on an aspect of the program that has arisen requiring resolution before proceeding.
 - definitive requirements known in advance and they cannot be obligated until the change is authorized and directed. These changes Engineering Changes (\$126.0 million) - Based on prior experience with systems of like nature and complexities, provision is made in procurement programs, as a percentage of the estimated cost of the item, to cover engineering improvements and design changes which will occur as a result of manufacturing experience or Air Force requirements. Engineering canges are not occur throughout the life of the production contract and result in unobligated balances.

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MODIFICATION OF MISSILES FY-81 PROGRAM

FY-81 APPROPRIATION MISSILE PROCUREMENT AIR FORCE

MINUTEMAN EXTENDED SURVIVABLE POWER MODIFICATION TITLE AND NO

L'SCRIPTION/JUSTIFICATION

MINUTEMAN LAUNCH FACILITIES WITH NEW POWER CELLS. THESE NEW CELLS ARE EXPECTED TO PROVIDE MINUTEMAN MINUTEMAN LAUNCH FACILITIES WITH NEW POWER CELLS. THESE NEW CELLS ARE EXPECTED TO PROVIDE MINUTEMAN MISSILES WITH ABOUT

ENDURANCE OF CURRENT POWER SYSTEMS, THIS MODIFICATION IS ESPECIALLY IMPORTANT TO THE SAC EMERGENCY WAR ORDER MISSION. 16M-30 (111) MODELS OF MISSILES AFFECTED

263.2 1 0 T f QTY 550 OUTYEAR JTY COST COST FY-82 11 COST FY-81 DIY COST FY-80 COST PR 1 0R QTY SCOPE OF PROGRAM

١,

ş. 0

9.0 263.2 550 550 .3 335 168.6 335 170.0 335 170.0 1:1 50 19.4 130 52.9 .1 52.6 52.9 _ CONTRACTOR/FIELD TEAM(S) _ 9 MONTHS 130 130 19.3 19.4 20 20.9 $\frac{8.6}{12.0}$ 20.9 35 35 BASIS FOR COST ESTIMATE NONRE CURR 1 NG TOTAL KITS

182

INSTALLATION LEAD TIME

METHOD OF IMPLEMENTATION

MODERNIZE AIM-4F/G MISSILE FLD EQUIPMENT MN-670408 AIM-41/G MISSILE CONSOLES/F-106A/B MISSILE AIR FORCE FY-81 APPROPRIATION MISSILE PROCUREMENT AND NO anDIFICATION TITLE

DESCRIPTION/JUSTIFICATION REPLACE HIGH FAILURE CONSOLE SUBASSEMBLIES WITH SOLID STATE COMPONENTS.

APPROXIMATELY 70% OF ALL CONSOLE SPARE COMPONENTS ARE IN A REPAIRABLE STATE DUE TO THE NONAVAILABILITY OF CONVENTIONAL VACUUM TURE TYPE CIRCUIT COMPONENTS. REPAIR IS PRESENTLY BEING ACCOMPLISHED BY CANNIBALIZATION OF SPARE CONSOLE COMPONENTS TO OBTAIN PARTS. MANY CONSOLE SPARE COMPONENTS TO OBTAIN. ALLS OF MISSILES AFFECTED

CONSULE SPANE COMPONENTS TOTAL		1
SCOPE OF PROGRAM	PRIOR FY-80 FY-81 FY-82 OUT/LAR QTY COST	T 0 T A L QTY COSF
BASIS FOR COST ESTIMATE		20 6.0
KITS DATA	1.2 1.3 3.9	20 7.2
TOTAL METHOD OF IMPLEMENTATION	TION: INSTALLATION - CONTRACTOR/FIELD TEAM(S) IFAD TIME - 12 MONTHS	

MODIFICATION OF MISSILES FY-81 PROGRAM

FY-81 APPROPRIATION MISSILF PROCUREMENT. AIR FORCE

MODIFICATION TITLE AND NO NUCLEAR SAFETY FEATURES, MN-28006A

MODELS OF MISSILES AFFECTED LGM-25C (TITAN II) MK-6 REENTRY VEHICLE

DESCRIPTION/JUSTIFICATION∞ TO UPDATE TO THE STATE-OF-THE-ART THE NUCLEAR SAFETY FEATURES ON THE MK-6 REENTRY VEHICLE.

SCOPE OF PROGRAM	PRIOR	14.	-80	H :	-81	F	-82	TUO	YEAR	0 >	T 0 T A L
	QTY COST	¥ 1 0	1503	- !	417 CUSI 417 CUSI 417 CUSI 417 CUSI 417 CUSI	417	100	43	3.5		8.4
BASIS FOR COST ESTIMATE					•	1	•		;	}	
NONRECURRING					1.5	00	22 18 43 36	43	ب م	LC C	
DATA					.2	1	•	•	;)	. 2
SUPPORT EQUIP.	,		1	1	1.3	1				1	1.3
TOTAL					3.0	22	3.0 22 1.8 43 3.6	43	3.6	9 ,	8.4
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT LEAD TIME - 24 MONTHS	N - DE	EPOT 4 MONT	ЯS							

FY-81 APPROPRIATION MISSILE PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO: TITAN II RTMN MN-590738

MODELS OF MISSILES AFFECTED: LGM-25C

DESCRIPTION/JUSTIFICATION: MODIFY THE TITAN II RADIO TYPE MAINTENANCE NETWORK (RTMK) BASE REPEATERS AND ADD BATTERY CHARGER FOR THE TRANSCEIVERS. THE PRESENT SYSTEM HAS BEEN INSTALLED SINCE THE MISSILE SYSTEM BECAME OPERATIONAL. IT IS THE PRIMARY COMMUNICATION SYSTEM WHEN THE PROPELLANT TRANSFER SYSTEM (PTS) IS IN OPERATION AND SECONDARY SYSTEM WHEN MAINTENANCE IS BEING PERFORMED IN THE SILO. DUE TO THE AGE OF THE SYSTEM AND SAFETY ASPECT OF PTS OPERATION THIS MODIFICATION IS REQUIRED.

SCOPE OF PROGRAM.												
	PR QTY	PRIOR FY-80 FY-81 FY-82 OUTYEAP QTY COST QTY COST QTY COST	FY QTY	-80 C0ST	FY QTY	-81 COST	FY QTY	-82 COST	0UT	YEAP COST	T 0 T	T O T A L QTY COST
	-						:		!	:		
BASIS FOR COST ESTIMATE.		1.0	7	3.6	7	3.6					0	
NONRECURRING	7	4				-					-	٠.
KITS			20	20 1.8 34 3.1	34	3.1					54	4.9
DATA		9.										9.
TRAINER				1.4								1.4
	1						:		:			6 6 8 8
TOTAL	-	1 1.0 20 3.2 34 3.2	20	3.2	34	3.2					55	7.4
M°THOD OF IMPLEMENTATION	INSTA	INSTALLATION - DEPOT/FIELD TEAM LEAD TIME - 18 MONTHS	11	EPOT/F 8 MONTI	I E L D H S	TEAM						

FY-81 APPROPRIATION MISSILE PROCUREMENT AIR FORCE

SHRIKE FUZE ANTENNA IMPROVEMENT MN-19609B MODIFICATION TITLE AND NO

MODELS OF MISSILES AFFECTED AGM-45A/B-6, -9

A SERIOUS PROBLEM HAS BEEN DETECTED IN THE AGM-45 PROXIMITY FUZING PESCRIPTION/JUSTIFICATION SYSTEM.

INSTALLATION OF LIMITER DIGDES IS REQUIRED'TO CORRECT THIS PROBLEM.

SCOPE OF PROGRAM	PRIOR FY-80 QTY COST QTY COST	FY-11 QTY CO	ST QTY	-82 COST Q	FY-1 FY-82 OUTVEAR QTY COST QTY COST	T O T	TOTAL QTY COST
RASIS. FOR COST ESTIMATE		5 00 2	.3 1500	4.9 2,1	15 7.0	4115	14.2
KITS SUPPORT EQUIP.		500 1	8 1500	4.9 21	500 1.8 1500 4.9 2115 7.0	4115	13.7
101AL	500 2.3 1500 4.9 2115 7.0	500 2	3 1500	4.9 21	15 7.0	4115	
METHOD OF IMPLEMENTATION		, H				•	

MODIFICATION OF MISSILES FY-81 PROGRAM

FY-81 APPROPRIATION WISSILE PRUCUREMENT AIR FORCE

SHRIKE GRAVITY BIAS MODIFICATION TITLE AND NO

AGM-45 A/B-9 MODELS OF MISSILES AFFECTED **DURING INITIAL OPERATIONAL TEST AND EVALUATION** DESCRIPTION/JUSTIFICATION AND A MEASURABLE PROBABILITY OF KILL. THE DEFICIENCY WILL BE CORRECTED BY ADDING A GYRO AND RELOCATING THE PRESSURE PORTS TO PROVIDE A GRAVITY BIAS.

SCOPE OF PROGRAM	ć		,	C	ì		i	c	5	2 4 2	-	- <
	017 Y	OTY COST	017	-80 C0ST	QTY	-81 COST	QTY	QTY COST QTY COST	017	COST	QTY	QTY COST
	200	2.2	500	4.7	1150	200 2.2 500 4.7 1150 11.0	-		;	!	1853	17.9
BASIS FOR COST ESTIMATE	;) ;	1) 									
NOWRECURRING	ć	~. c	90	•	1160	\$1 0 1 0 500 4 7 1150 11 0					1850	17.6
DATA	007	1.3	0.16	;		• • •)
SUPPORT EQUIP.	1	۳. :		1	:	8 1 1		1		1	1	
TOTAL	200	2.2	200	4.7	1150	200 2.2 500 4.7 1150 11.0					1850	17.9
METHOD OF IMPLEMENTATION	INSTA	INSTALLATION - DEPOT/CONTRACTOR LEAD TIME - 12 MONTHS	1 I	EPOT/	CONTRA	CTOR						

FY-81 APPROPRIATION MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO. MODIFY AGM-69A COMPUTER, MN-48005B

THE CARRIER COMPUTER FAILURES ARE ATTRIBUTED TO MODELS OF MISSILES AFFECTED AGM-69A

AGES. EN HIGHEP	T 0 T A L QTY COST 402 42.4	1 3.9 1 36.0 .3	2 42.4	
ITSPNAL ANGE IC PACK	T 0 QTY 402	401	402	
EXISTIN	OUTYEAR QTY COST		† 1 1 1 1 1	
THE THE HANG	QTY			
PUIEK ROSION PLACE THIS C	FY-82 QTY COST 2-6 249 22.6	22.6	22.6	
COR COR 10 RE	FY QTY 249	249	249	
ARRIER S. THE ELOP AN IMPLEN VDED.	-81 COST	12.4	12.4	IATE
THE C KAGES DEVE E TO	FY. 0TY 144	144	144	ERMED HS
AGE OF IC) PAC E WOULD FAILUR IFE IS	FY-80 FY-81 FY-81 QTY COST QTY	3.9 1.0 144 12.4 249 22.6	9 7.4 144 12.4 249 22.6	INSTALLATION - ORG/INTERMEDIATE LEAD TIME - 9 MONTHS
RCENT/ UIT (CHANGI EMS. TEM L	FY QTY 	₩ ₩	6	ON - (
CIRC CIRC THIS PROBL 9A SYS	PRIOR QTY COST		6 6 1	ALLATI
A LAR EGRATER AGES. CK-UP"	PR Q17		!	INSTA
DESCRIPTION/JUSTIFTCATION A LARGE PERCENTAGE OF THE CARRIER CUMPUIEN FAILURES THE TAILORDS OF THE INTEGRATED CIRCUIT (IC) PACKAGES. THE CORROSION IS BOTH INTEGRATED CIRCUIT (IC) PACKAGES. THE CORROSION OF THE INTEGRATED CIRCUIT (IC) PACKAGES. THIS CHANGE WOULD DEVELOP AND REPLACE THE EXISTING IC PACKAGES. THIS CHANGE MAY LEAD TO EVEN HIGHER THEREBY REDUCING "LOCK-UP" PROBLEMS. FAILURE TO IMPLEMENT THIS CHANGE MAY LEAD TO EVEN HIGHER FAILURE RATES AS THE AGM-69A SYSTEM LIFE IS EXTENDED.	SCOPE OF PROGRAM	BASIS FOR COST ESTIMATE HONRECURRING KITS	SUPPORT EQUIP. TOTAL	METHOD OF IMPLEMENTATION

FY-81 APPROPRIATION MISSILE PROCUREMENT AIR FORCE

MN-16525C IMPROVED EMERGENCY ROCKET COMM SYSTEM MODIFICATION TITLE AND NO:

MODELS OF MISSILES AFFECTED: 494L PAYLOAU

DESCRIPTION/JUSTIFICATION DUE TO THE AGING OF THE SYSTEM MANY ELECTRONIC PARTS REQUIRED FOR REPAIR ARE NOT AVAILABLE AND/OR DIFFICULT AND COSTLY 70 OBTAIN. MODIFICATION WILL INCORPORATE CURRENT STATE OF THE ART ELECTRONIC COMPONENTS WHICH ARE STANDARD PRODUCTION ITEMS AND AVAILABLE FROM MULTIPLE SOURCES, INTO PAYLOAD CONTROL-MONITOR CONSOLE CONTROL-MONITOR DATA TRANSFER AND ASSOCIATED SUPPORT EQUIPMENT.

SCOPE OF PROGRAM:	à	108	1 4	80)	-83	<u> </u>	-32	00.7	YEAR	0 +	A L
	QTY	COST	QT.	COST	0 . ∀	COST	QTY	COST	QTY	OTY COST	ŲΤγ	QTY COST
	; m	3 10.4 4 1.3 16 3.1 15 3.9	1 4	1.3	16	3.1	15	3.9	•	:	38	18.7
BASIS FOR COST ESTIMATE:	•			1	ı							
NONRECURRING	ო	3 8.7			,	,	,				m (8.7
XITS .		1.6	ব	4 .6 16 2.7 15 3.8	16	2.7	15	ლ დ			35	1.0
TRAINER				4.		•		•				4.0
SUPPORT EQUIP.		r-;			!	t	!	• !	1	1	1	
TOTAL		3 10.4 4 1.3 16 3.1 15 3.9	4	1.3	16	3.1	15	3.9) - -		38	18.7
METHOD OF IMPLEMENTATION		INSTALLATION - DEPOT	٥ - ٦	EPOT								

١,

- 12 MONTHS

LEAD TIME

MODIFICATION OF MISSILES FY-81 PROGRAM

BRINE CHILLER UNITS REPLACEMENT, MN-18543B FY-81 APPROPRIATION MISSILE PROCUREMENT, AIR FORCE MODIFICATION TITLE AND NO

MODELS OF MISSILES AFFECTED: LGM-30

DESCRIPTION/JUSTIFICATION ENVIRONMENTAL CONTROL SYSTEM BRINE CHILLER UNIT AND INSTRUMENT AIR COMPRESSOR HAVE OPERATED COMPRESSOR LIFE STUDY REVEALED THE BRINE CHILLER AND INSTRUMENT AIR BEYOND THEIR DESIGN AND ARE NOW WORN-OUT. "HE PRESENT BRINE CHILLER AND INSTRUMENT AIR COMPRESSOR WILL BE REPLACED WITH NEW DESIGN D'BRINE CHILLER AND INSTRUMENT AIR COMPRESSOR. NEW BRINE CHILLERS WILL HAVE A SMALLER LOAD CAPACITY AND WILL REQUIRE LESS ELECTRICAL ENERGY. MODIFICATION WILL BE BY WING AND ENGINEERING IS REQUIRED FOR DIFFERENT WING CONFIGURATIONS.

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61	7 2	
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ж. .3	8.4	_
461	284	C / E M Z
મ. ૧૦૧ ૧૦૧	13.1	וברח י
369	359	LOK/F HS
55. S	7.7	2 MONT
196	196	
1.2	2.1	LLAIIO AO TIM
5.3	1 E	INSTA
T ESTIMATE.	TOTAL	METHOD OF IMPLEMENTATION
	T ESTIMATE. 5.3 1.2 196 4.9 359 10.0 234 8.1 77 2.1 969 7.1 1.2 196 7.2 1.2 196 7.3 1.2 196 7.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	53 1.2 19¢ 4.9 359 10.0 284 8.1 77 2.3 969 53 2.1 196 7.7 359 13.1 284 8.4 77 2.5 969

FY-81 APPROPRIATION MISSILE PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO. SYLVANIA SECURITY SYSTEM, MN-56149B

MODELS OF MISSILES AFFECTED LGM-30 F/G, WINGS II-V

DESCRIPTION/JUSTIFICATION MODIFICATION WILL CONSIST OF CHANGING THE OUTER ZONE ALARM CONTRGL
DRAWER LOGIC CIRCUITRY TO DISCRIMINATE AGAINST NUISANCE ALARMS CAUSED BY ANIMALS BIRDS,
WEEDS, RAIN AND SNOW, AND TO ALARM ONLY ON HUMAN INTRUDERS. TESTS OF A NEW DESIGN PROCESSOR
HAVE DEMONSTRATED A REDUCTION OF NUISANCE ALARMS OF 80 PERCENT CAN BE ACHIEVED. MODIFICATION
WILL BE ACCOMPLISHED IN THREE PHASES. PHASE I AND II ARE DEVELOPMENT AND TEST PHASES. PHASE

SCOPE OF PROGRAM	90199	C	FY-81		OUTYEA	œ	1 0 1	*
	QTY COST QTY COST	COST QT	Y COST	qry cost qry cost qry cost	017 00	ST	QTY COST	COST
BASIS FOR COST ESTIMATE	1.1	6	•					
NONRECURRING KITS	11 1.1	19	671 3.4				11 671	3.1
DATA				1.	:	:	6 1 1	
TOTAL	11 1.1	67	671 3.5				682	4.6
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT/CONTRACTOR LEAD TIME - 15 MONTHS	DEPOT/CONT 15 MONTHS	RACTOR					

191

FY-81 APPROPRIATION MISSILE PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO BOEING SECURITY SYSTEM, MN-58056C

MODELS OF MISSILES AFFECTED. LGM-30F/G WING I SQD 20. WING VI

DESCRIPTION/JUSTIFICATION MODIFICATION WILL CONSIST OF CHANGING THE DRAWER LOGIC CIRCUITRY TO DISCRIMINATE BETWEEN NUISANCE ALARMS CAUSED BY ANIMALS BIRDS WEEDS, AND RAIN AND SNOW AND THOSE VALID ALARMS CAUSED BY HUMAN INTRUDERS. EACH NUISANCE ALARM IS RESPONDED TO BY A TWO MAN TEAM. MANNING CRITERIA IS FOR RESPONSE TO 84 ALARMS PER WEEK. AN AVERAGE OF 400 ALARMS PER WEEK ARE BEING EXPERIENCED. THIS BECOMES UNMANAGEABLE FROM MANNING AND COST STANDPOINTS.

SCOPE OF PRCGRAM	6	2		5	ì	:	Ē	, .	•	-
	QTY COST	01Y CO	ST QTY	7-81 COS1	Q T Y T Q	QTY COST	01 7	QTY COST	Q Y T Q	COST
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 20 350 9.5	10		35.0		:	:	360	360 11.5
BASIS FOR COST ESTIMATE			•	,) }	•			3	•
NOWRECURRING			10	10 1.1	9	0			10	
DATA				. 2.	000	330 0.3			000	1.2
									1 0	
TOTAL			₹	0.2	000				300	6.11
METHOD OF IMPLEMENTATION	INSTALLATION - DEPOT LEAD TIME - 18 MONTHS	N - CEPO	TONTHS							

FY-81 APPROPRIATION MISSILE PROCUREMENT, AIR FORCE

MODIFICATION TITLE AND NO IMPROVE ROCKET MOTORS MN-582048

MODELS OF MISSILES AFFECTED: LGM-30F (MINUTEMAN)

DESCRIPTION/JUSTIFICATION THE LGM-30F THIRD STAGE ROCKET MOTOR (M57A1) HAS DEVELOPED A FLAP/BOOT DEBOND IN THE IGNITER PORT AS A RESULT OF AGE. FLAP-TO-BOOT FAILURES ARE BEING FOUND ON SOME STAGE III ROCKET MOTORS DURING ROUTINE X-RAY/VISUAL INSPECTION. THERE ARE 96 MOTORS INVOLVED HAVING A REPLACEMENT COST OF \$48 000 000. A MODIFICATION IS REQUIRED TO CORRECT THIS CONDITION AND MAINTAIN THE MISSILE IN OPERATIONAL STATUS.

SCOPE OF PROGRAM:	PRIOR QTY COST	PRIOR FY-80 FY-81 FY-82 OUTYEAR QTY COST	FY.	-81 COST	FY- QTY 	-82 C0ST 	001	YEAR COST	T 0 T QTY YTY 96	01Y COST
BASIS FOR COST ESTIMATE.			!	1						•
NONRECURRING KITS			47	1 .1 48 2.2	48	2.2			95 95	
DATA TOTAL	1 1 1 1 1	48 2.2 48 2.2	48	48 2.2 48 2.2	48	2.2		8 6 8	96	4.4
METHOD OF IMPLEMENTATION	INSTALLATION LEAD TIN	INSTALLATION - DEPOT LEAD TIME - 12 MONTHS	THS							

193

	MN-590758
	SETS
FY-81 APPROPRIATION MISSILE PROCUNEMENT AIR FORCE	MODIFICATION TITLE AND NO. MOD 7/8 INSTR UNIT TEST SETS, MN-590758
ΕΥ	MOD

DESCRIPTION/JUSTIFICATION THE TEST SETS ARE USED TO CHECKOUT THE MOD 7/8 INSTRUMENTATION PACKAGES INAT ARE INSTALLED ON MISSILES FIRED FROM VANDENBERG AFB. THE EXISTING ELECTRONIC COMMERCIAL EQUIPMENT (ECE) IN THE MOD 7/8 INSTRUMENTATION TEST SETS ARE BECOMING UNSTABLE AND TW NEED OF MAJOR REPAIR. THESE UNITS ARE NO LONGER MANUFACTURED AND PARTS ARE NOT AVAILABLE FOR PROCUREMENT. ACTION REQUIRED TO EVALUATE CURRENT AVAILABLE ELECTRONIC EQUIPMENT TO DETERMINE AN ACCEPTABLE REPLACEMENT WHICH BEST MEETS THE TEST SETS NEEDS. LGM-30 MODELS OF MISSILES AFFECTED

	T 0 T A L QTY COST	11 1.3	
	6 FY-81 FY-82 ΟυΤΥΕΑ 6 TY COST 6 TY COST 6 TY 6 TY 6 TY 6 TY 6 TY 6 TY 6 TY 6	11 1.3	0.R S
	PRIOR FY-80 QTY COST QTY COST		INSTALLATION - CONTRACTOR LEAD TIME - 9 MONTHS
AN PUCETABLE PETENCHIST	SCOPE OF PROGRAM.	BASIS FUR COST ESTIMATE NONRECURRING KITS DATA	METHOD OF IMPLEMENTATION

FY-81 APPROPRIÀTION MISSILE PROCUREMENT AIR FORCE

MODIFICATION TITLE AND NO AIM 7 UPDATE

MODELS OF MISSILES AFFECTED AIM-7F SPARROW

DESCRIPTION/JUSTIFICATION IN JAN 78, A PERFORMANCE OPTIMIZATION PROGRAM WAS INITIATED TO CORRECT DEFICIENCIES IDENTIFIED IN FOLLOW ON TEST & EVALUATION AND TO IMPROVE PERFORMANCE IN CLUTTER AND ELECTRONIC COUNTER MEASURES ENVIRONMENT. SPECIFICALLY FOUR CHANGES.ARE PLANNED;

SCOPE OF PROGRAM											
	PRIOR QTY COST	T 0TY	01Y COST 01Y COST 01Y COST 01Y COST	F Y 01 Y	-81 COST	γ ¥ 70	-82 COST	00.7	YEAR	T 0	T O T A L
								. !			- 1
BASIS FOR COST ESTIMATE:		200	5.0	820	7.1	850	7.1	2472	20.8	4372	40.0
NONRECURRING KITS SUPPORT EQUIP.		200	3.1	850	3.1 1.6 850 7.1 850 7.1 2472 20.8 .3	850	7.1	2472	20.8	4372	36.6 36.6
TOTAL	200 5.0 850 7.1 850 7.1 2472 20.8	200	5.0	850	7.1	850	7.1	2472	20.8	4372	40.0
METHOD OF IMPLEMENTATION	INSTALLATION - CONTRACTOR LEAD TIME - 12 MONTHS	ON - 0	ONTRAC 2 MONT	70R HS							

OTHER PROCUREMENT, AIR FORCE

of title 10, United States Code, for the forgoing purposes, and such lands and interests therein may be acquired, and construction prosecuted thereon print to the approval of Title as required by Section 355, Revised Statutes, as amended: reserve plant and Government and contractor-owned confirmint layawas, \$2,972,687 available for obligation until September 30, 1983 (5 U.S.C. 3109; Overnment and contractor-owned confirmint layawas, \$2,972,687 available for obligation until September 30, 1983 (5 U.S.C. 3109; 10 U.S.C. 491-94 Department of Defense passenger motor vehicles for replacement, and forty for augmentation, and expansion of public and private plants, Government-Owned equipment and installation thereof in such plants, erection of atructures, and acquisition of land without regard to Section 9774 For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not to exceed five hundred and ninety Appropriation Act 1980)

Other Procurement, Air Force

Othe	dther Procurement,	. Air Force				28 JAN 80
PCB EGLBOLA	Financing	(in thousands of doll	dollers)			
-	3	Budget plan (amounts for inement actions programed)	opremed)	9 	Obligations	1 1 1 1 1 1 1
	1979 mctuml	979 Botce 1980 884	1981 set.	1979 actual	1980 est.	-
Program Ty activities:				l		8 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2. Vehicular and associated aguipment 2. Vehicular aguipment 3. Filentronics and electronics	305,276 134,490	330, 862 157, 400	285,203	305, 500 132, 041	244,300	313,064
	524, 764	569, 159	707,759	528,672	506, 755	744, 525
equipment	1,388,180	1,555,300	1,801,826	1,390,629	1,639,246	1,633,807
Total direct Reimbursable program (total)	2,352,710	632, 252,	2,972,687	2,354,642	2,417,663	2,656,573
10.00 Total	2,509,954	2,885,194	3,166,461	2,491,682	2, 635, 000	3,019,000
Financing:	-107,092 -50,232 -80	-176, 700 -70, 783 -5, 000	-179,700 -8,074 -8,000		-176,700 -70,753 -5,000	-17 9 , 750 -2, 074 -5, 000
For completion of prior year budget p Available to finance new budget plans Reprograming from or to prior year budg. Unobildated balance transferred to other	-37,000	-10,600		-715,315	-10,600	-836,714
McCounts Unobligated balarice evallable, and	5,965			5,965		4
9	10,600			10,800	417,658	986,175
Budget sutherity	2,363,150	2,632,741	2,972,687	2,363,150	10,600	2.972.687
Budget authority: 40.00 Appropriation 41.00 Transferred to other accounts	2,362,250	2,634,031	2,972,667	2,362,250	2,634,031	2,872,687
43.00 Appropriation (adjusted) 50.01 Responspriation	2,326,150	- 9	2,972,687	2,326,150	2,619,141	2,972,687
Relation of obligations to outlays: 71.00 Ubligations incurred, fat. 72.40 Ubligated belance, att. of year 74.40 Obligated belance, and of year 77.00 Adjustments in expirid accounts			8 6 1 1 2 8 4 4 6 6 7 7	2,419,291 1,434,931 1,642,773 19,013	2,382,547	2, e25, 226 1,671, 320 -1,935, 646
90.00 Gutlays				2, 230, 361	2,354.000	2, 561, 000

Force
AIT
Progurement,
Other

1979 actual 1980 est, 1961 est.	Identification code 67-3080-0-1-051 1980 est. 1981 est.	1980 est.	1961 est.
Direct obligations: 31.0' Equipment	2.354	2.417.683	
Total direct obligations	' '	2,417,693	2,856,573
Reimburssble obligations: 31.0 Equipment			
99.0 Total obligations		2,638,000	3.019.000

Force
A
Procurement,
Other

	Budget plen (emounts for	plan (smount	,		dbligstions	1
dent fication code 57-3080-0-1-05	1979 Bottus 1980 68t. 1981 68t.	1980 est.	1981 est.	1979 actual		1980 est. 1981 est.
	, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ; ; ; ; ; ; ;				
Program by activities: Direct: Munitions and associated equipment				21,474 5,605	* 9 * 8 * * * * * * * *	
2 Vehicular equipment 3. Electronics and telecomunications				87,073	:	
equipment 4. Other base maintenance and support equipment	. 1 . 1 . 1 . 1 . 1 . 1	.1	. 1 . 1 . 1 . 1 . 1 . 1 . 1	4,360	.1 . .1 . .1 . .1 . .1 . .1 . .1 .	.1
Total direct Reimbursable program (total)		6 · 1 · 4 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6	1 . 2	5,513	. 1 · · · · · · · · · · · · · · · · · ·	.1 .
10.00 Total						
Financing: Offsetting collections from: 11.00 Feders! unds				14,650		· · · · · · · · · · · · · · · · · · ·
				-213,492		1
25.00 Unobligated balance (apsing Budget authority	1	1				e

ther Producement. Air Force

		Program and Financing (in thousands of dollars)	thousands of	dollars)		1976 Fiscal year program	Veer progr
dentification code 57-3080-0-1-	051	Budge procurement	Budget plan (amounts for procurement actions programed	ogramed)		Obligations	
		1979 Botust 1960 est.	1980 est.	1981 ast.	1979 actual	1980 est.	1981 est.
Program by activities: Direct:	/1¢10s:						
2. Vehicu	Munitions and associated equipment Vehicular equipment Electronics and telecomunications				20,684 29,268	31,700 9,282	· · · · · · · · · · · · · · · · · · ·
4. Other Bedui	equipment Other base maintenance and support equipment				123,866	114,148	
Total direct Reimbursable pròg	Total direct Reimbursable program (total)	1	1		226, 269	168,156	1 2
10.00 Totel		1		1	252,857	193, 366	1
Finencing: Offsetting coll 11.00 Federal funds 13.00 Trust funds 14.00 Non-federal 21.40 Unchilomed hals	nencing: Offsetting collections from: Federal funds Trust funds Unch federal sources				5, 462 44, 173 - 19		
	For completion of prior year budget plans Available to finance new budget plans Available from or to prior year budget plans Meprograming from or to prior year budget plans	-37,000			-501,623	-193, 366	
24.40 Unobligated belence available for completion of prior year. 40 Unobligated belence lepsing	eccounts Unobligated belance evailable, end of year: For completion of prior year budget plans Unobligated belance lepsing	5,965	6		5,965 193,366 37,000		
Budget authority	hority	1	1 .	1 . 1 . 1 . 1 . 1 . 1 . 1	1 . 4 ., 1 1		

Other Procurement, Air Force

PC# E#10011 .	Program and Financing (in thousands of dollars)	thousands	of dollars)		1979 Fiscal	1979 Fiscal veer progress
identification code 87-3080-0-1-051	edbud nemernoord	Budget plan (amounts for procurement actions programed)	inte for	* * * * * * * * * * * * * * * * * * *	Obligations	
	1979 actual 1980 est. 1981	1980 est.	1981 est.	1979 actual	1960 est	140
Program by activities: Direct:			4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
1. Munitions and associated equipment	305,278					
	134,490			263, 342	25,000	16, 934
equipment	101				30,000	7,322
 Other base meintenance and support equipment 	754, 764	*********		315,711	45,708	163, 345
Total direct	1,350,180	. 1	- 1 - 1 - 1 - 1 - 1 - 1	1,333,640	44,153	10.187
Reimbursable program (total)	2,5%2,710	Ø		2.010.061	77.	
10.00 Total	447 ' / O -	. 1	• 1	104, 739	42,107	10,388
Financina:	2, 509, 954	•		2,114,800	186,968	208.188
11.00 Facting collections from:						•
	-107,092	*********		-107		
	- 50, 232			-50,232	********	•••••••
5	3	*	***	0	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Available to finance new budget plans 24.40 Unbbligged belance available, and of years		-10,600	**************************************		-395,154	-208, 186
Available to finance subsequent vier brobet		*******		395, 154	204.188	•
d belence lapsing			· · · · · · · · · · · · · · · · · · ·	10,600		
Budget sutherity		0, 800	· 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1		10, 600	
Budget suthority:	2,363,150			į		
41.00 Transferred to other accounts	2,382,250		• • • • • • • • • • • • • • • • • • • •			1 1 1 1 1 1 1 1
43.00 Approprietion (adjusted)		• 1	. ! . ! . ! . ! . !	-36, 100		· · · · · · · · · · · · · · · · · · ·
Ž	37,000			2,326,150		
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5) CCB EBCC00CL	Program and Financing (in thousands of dollars)	thousands of	dollers)		1960 Fiscal year program	merbord ree
	Budget plan (enounts for procurement actions programed)	Budget plan (enounts for procurement actions programed)	ts for	1 6 1 1 5 1 1 5 4 1 1 1	Obligations	
	1979 SCALES 1980 SEA. 1981 SEA.	1980 est	1981 est.	1979 actual	1980 est.	1981 est.
Program by activities:						
Munitions and associated equipment 2. Vehicular equipment	· · · · · · · · · · · · · · · · · · ·	330,882		• • • • • • • • • • • • • • •	187,600	107,200
		589, 159			346,699	128,200
4. Other base maintenance and scrport equipment	. !	1,555,300	. I . I . I . I . I	. ; . ; . ; . ; . ;	1,482,067	12,419
Total direct Reimburseble progrem (total)		2, 632, 741		* .	2,104,666 150,000	
10.00 Totel	1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·	2,885,194	1		2, 254, 666	378,248
Financing: Offsetting collections from: 11.00 Federal funds 13.00 Trust funds 14.00 Non-federal sources		-176, 700 -70, 753 -5, 000	* • • • • • • • • • • • • • • • • • • •	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-178,700 -70,753 -5,000	
21.40 Unobilgated balance available, start of year: For completion of prior year budget plans 24.40 Unobilgated balance available, and of year:						-630, 528
Budget suthority	5 * · · · · · · · · · · · · · · · · · ·	2,632,741			2,632,741	
Budget authority: 40.00 Appropriation 41.00 Transferred to other accounts		2,634,031	2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2, 634, 031	8 • 1 8 • 1 • • 1 • • 1 • • 1
43.00 Appropriation (adjusted) 50.01 Responsoriation		2,619,141			2,619,141	

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		10	Other Procurement, Air Force	., Air Force				28 JAN 80
			Program and Financing (in thousands of dollars)	thousands of	dollers)		1981 Fiscel year program	mer program
Identi	Identification code		agbud 	Budget plan (amounts for procurement actions riogramed)	ts for Gramed)		dbligations	
1			1979 actual	1979 mctum 1980 mst.	1981 est.	1979 actual	1980 est.	1981 est.
•	Program by activities: Direct:	14108>						
	1. Munitio	Munitions and associated equipment		:	295, 203			188,930
	3. Electro	Versionies equipment Electronics and telecosumications						
	1nbe	equipment			707, 759		*	452, 980
	4. Other b	diner base maintenance and support equipment	•		1,801,826			1,611,201
	•		. ,		£14114111		1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Total direct	ect	*	•	2,972,687			2, 360, 566
	Reimburseble	Meimburseble progres (total)		. !	193, 774			72,000
10.00	Total				3, 166, 461			2, 432, 566
		nancing: Offsetting collections from: Federal funds Trust funds Non-federal sources Non-federal sources Unobilested balance eveileble, end of year:	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		- 179, 700 -9, 074 -5, 000			-179, 700 -9, 074 -5, 000
		For completion of prior year budget plans Budget muthority	. 1	. 1 .,	2,972,687	733,695

INTRODUCTORY STATEMENT

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DIRECT BUDGET PLAN - OTHER PROCUREMENT, AIR FORCE

(In Thousands of Dollars)

Difference	, 35,679 + 10,499 +118,600 +246,526 +339,946
FY 1981	295,203 167,899 707,759 1,801,826 2,972,687
FY 1980	330,882 157,400 589,159 1,555,300 2,632,741
BUDGET ACTIVITY	Munitions Vehicles Electronics and Telecommunications Other Base Maint & Support Equip TOTAL DIRECT PROGRAMS

for that equipment which is peculiar to the support of individual airborne weapon systems. Provision is also made for procurement The Other Procurement, Air Force (OPAF), Appropriation provides the central procurement of all major ground equipment except of the spares and repair parts, supplies and materials, modification, and industrial facilities integral to the procurement programs. It also provides for local procurement of equipment items costing \$3,000 or more, not centrally procured

(1) Munitions and Associated Equipment; (2) Vehicular Equipment; (3) The appropriation consists of four budget activities: (1) Munitions and Associated Equipment; Electronics and Telecommunications Equipment, and (4) Other Base Maintenance and Support Equipment. The total direct budget plan for FY 1981 is \$2,972.7 million, an increase of \$339.9 million over the direct budget plan for FY 1980 as shown above. This increase is a result of the following changes:

Munitions - Net decrease is a result of numerous adjustments most significant of which are 30MM and Rockeye decreases (\$59.0 million) offset by GBU-15 and BSU-50 increases.

Vehicles - \$10.5 million increase accommodates greater emphasis on readiness vehicles such as flight line cargo-utilities vehicles to support fighter/bomber and missile missions.

Electronic and Telecommunications Equipment - \$118.6 million net increase associated with programs such as the Defense Support Program, Joint Tactical Communications Program, and BMEWS upgrade. Electronic and Telecommunications Equipment

Other Base Support Equipment - \$12.9 million increase for new requirements not now included in the FY 1980 program, a increase of \$38.9 million in on-going programs, and an increase of \$120.9 million for Selected Activities, and an increase \$73.8 million for Special Update program. New obligational authority equal to the amount of the direct budget plan is required to finance the planned FY 1981 program. 204

FY 1981 HIGHLIGHTS

Program requirements for Munitions and Associated Equipment are \$295.2 million, a decrease of \$35.7 million under FY 1980 due to the deletion of caliber \$38 cartridges, and a reduction in 20Mm and other on-going program requirements. The new program requirements in FY 1981 includes: CCU-44/B Impulse Cartridge, BSU-50 Inflatable Retarder, and B-83 Training Bombs.

Program requirements for Vehicular Equipment are \$167.9 million, an increase of \$10.5 million over the program for FY 1980. The FY 1981 program will provide two Rapid Runway Repair Sets for use in Europe, continue the program to modernize Red Horse non-tactical vehicles for use in Europe. The program also provides a slight reduction of the backlog of overaged vehicles, insquadrons, procure armored vehicles for nuclear security forces, and improve NATO interoperability by procuring European cluding passenger carrying.

Program requirements for Electronic and Telecommunications equipment are \$707.8 million, an increase of \$118.6 million over y 1980 program. The FY 1981 program continues the Defense Support Program, Joint Tactical Communication Program and the the FY 1980 program. BMEWS upgrade.

Program requirements for Other Base Maintenance and Support Equipment are \$1,801.8 million, an increase of \$246.5 million over the FY 1980 program. Selected Activities realized an increase of \$120.9 million. New items in FY 1981 account for \$12.6 million, for procurement of Portable Runway Lighting Sets, Tactical Shelters (5-530), and Productivity Investments.

The individual budget activity justifications elaborate on the FY 1981 program requirements and provide additional detail on the above outlined increases.

	SUMMARY OF REQUIREMENTS		(In Thousands of Dollars)	of Dollars)
		FY 1979 Actual	FY 1980 Actual	FY 1981 Estimate
Munit	Munitions and associated equipment	\$ 305,276	\$ 330,882	\$ 295,203
Vehic	Vehicular Equipment	134,490	157,400	167,899
Elect	Electronic and telecommunications equipment	524,764	582,159	707,759
Othe!	Other base maintenance and support equipment	1,388,180	1,555,300	1,801,826
TOTAL	TOTAL DIRECT PROGRAM	.2,352,710	2,632,741	2,972,687
Reimb	Reimbursable program	157,244	252,453	193,774
	TOTAL PROGRAM REQUIREMENTS (CURRENT)	2,509,954	2,885,194	3,166,461
Less:	Portion of program to be obligated in subsequent fiscal years	395,154	630,528	733,895
Plus:	Obligations incurred against prior year program funds	376,882	380,334	586,434
TOTAL	TOTAL OBLIGATIONS	2,491.682	2,635,000	3,019,000

Direct Program Requirements - FY 1981 - \$295,203 Direct Program Requirements - FY 1980 - \$330,882 Direct Program Requirements - FY 1979 - \$305,276

ACTIVITY: Munitions and Associated Equipment

PART I - PURPOSE AND SCOPE

weapon employment, (2) maintaining pilot/crew combat proficiency; (3) training weapons personnel in maintenance, storage, movement, assembly, and loading of munitions; and (4) the procurement of War Reserve Materiel (WRM) to meet specified Inventory Objectives. (1) the training of aircrews in Provides munitions for Tactical and Strategic Forces including: munitions and associated equipment, armament devices, spares and repair parts, and equipment modifications. This materiel is required for:

PART II - JUSTIFICATION OF FUNDS REQUESTED

The FY 1981 Program includes funds for the procurement of Small Arms Ammunition, 20MM Training Cartridges, 30MM Training/High Explosive Incendiary/Armor Piercing Incendiary Cartridges; Practice Bombs (BDU-33, MK-82, BDU-38), Guided Bombs, Flares and Fuzes. These funds will provide for procurement of training, base defense, and War Reserve Materiel (WRM) Munitions and associated equipment. The following table summarizes the program requirements for each of the major categories of munitions and associated equipment in the past, current and budget year programs.

DIRECT PROGRAM RECVIREMENTS (In Thousands of Dollars)

1979

			-	
_:	Rockets and Launchers	12,103	6,197	571
	Cartridoes	154,180	194,485	138,696
	Вошья	64,860	78,303	84,293
	Targets	658	3,185	7,074
	Other Items	35,185	22,595	41,506
	Fuzes	37,946	26,117	23,063
7.	Other Weapons	344		-
	Total Direct Program Requirements	305,276	330,882	295,203

Rockets and Launchers - Provides for procurement of practice rockets and miscellaneous rocket components to support training requirements. Cartridges - Provides for continued procurement of 20MM training cartridges used in tactical aircraft guns, 30MM Training/High Explosive Incendiary (HEI), Armor Piercing Incendiary (API) Cartridges used in the A-10 aircraft and MXU-4A/A Engine Starters.

Bombs - The FY 1981 program provides for procurement of Laser Bomb Guidance Kits and several practice bombs as well as initial procurement of the BSU-50 Air Inflatable Retarder, and procurement of the GBU-15.

Targets - Provides for procurement of aerial tow targets for air-to-air gunnery training.

Other Items - Provides for procurement of a variety of flares, Spares and Repairs Parts, and Modification.

Fuzes - Provides for procurement of the FMU-112 impact or short delay fuze for retarded bombs, the FMU-81 impact short delay fuze for laser guided bombs, and the MK-339 Mechanical Time Fuze for cluster munitions.

\$167,899 \$157,400 \$134,490 1 1 ı Direct Program Requirements - FY 1981 Direct Program Requirements - FY 1980 Direct Program Requirements - FY 1979 (In Thousands of Doilars)

> Vehicular Equipment ACTIVITY:

- PURPOSE AND SCOPE PART I

Provide for all classes and types of direct mission related vehicles to support operational readiness of the active and reserve forces, including the capability to sustain a wartime surge of forces for the length of the conflict. Examples of vehicles types are material handling equipment, refuelers, aircraft launch and recovery vehicles, and fire fighting equipment. Also included are vehicles to support base operations.

PART II - JUSTIFICATION OF FUNDS REQUESTED

the upgrading of combat engineering capability, improvement of aircraft launch and recovery support, and replacement of overage and uneconomical vehicles in order to improve peacetime efficiency. Provides for the procurement of critical materiel handling equipment, the replacement of old and unicitable support vehicles,

The following table summarizes the program requirements for each of the major categories of equipment in the past, current and budget year programs.

DIRECT PROGRAM REQUIREMENTS (In Thousands of Dollars)

9771,400	$\frac{28,521}{}$	18 124 31.371	25,076 44,826	48,747 46,519	\$ 3,597 \$ 5,045	<u>1979</u> <u>1980</u> <u>1981</u>	
¢134,490 \$137,400		hent 28,521 24,381	9,525 5,258 18,124 31,371 28,521 24,381	25,976 44,826 9,525 5,258 18,124 31,371 28,521 24,381	48,747 46,519 25,976 44,826 9,525 5,258 18,124 31,371 28,521 24,381	Passenger Carrying Vehicles \$ 3,597 \$ 5,045 \$ 15,568 Cargo and Utility Vehicles 48,747 46,519 61,671 Special Purpose Vehicles 44,826 41,098 Firefighting Equipment 9,525 5,258 4,171 Materials Handling Equipment 18,124 31,371 22,089 Base Maintenance Support 24,381 23,302	\$ 3,597 \$ 5,045 \$ 48,747 \$ 46,519 25,976 \$ 44,826 9,525 \$ 5,258 18,124 31,371 28,521 24,381
t 18,124 31,371 28,521 24,381	18.124 31,371			25,976 44,826	48,747 46,519	\$ 3,597 \$ 5,045 48,747 46,519 25,976 44,826	\$ 3,597 \$ 5,045 \$ 48,747 \$ 46,519 25,976 \$ 44,826

4464

Passenger Carrying Vehicles - Provides for replacement of unreliable ambulances and buses which have a high overage rate and excessive costs to repair and maintain. The FY 1981 program is \$10.6 million more than FY 1980, however, this category represents less than 10% of the entire vehicle program.

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bone of the intra-base cargo distribution system, as well as provides support to off base operating locations in a tactical intronment. This category consists of key readiness vehicles which are direct aircraft munitions and missile support equipment. The FY 1981 request is \$15.2 million more than FY 1980 because of increased emphasis on procurement of these readiness related vehicles. Cargo and Utility Vehicles - Provides for procurement of general purpose and tactical cargo vehicles which make up the back-

procurement. Provides for replacement of maintenance trucks, aircraft towing tractors, and for the procurement of security response vehicles required to protect nuclear sites, and equipment needed to support increased wartime aircraft sorties in NATO and Special Purpose Vehicles - The FY 1981 request is \$3.8 million less than FY 1980 because of reduced aircraft refueling truck

Firefighting Equipment - Provides equipment required for aircraft crash and rescue service and for structural protection of base property. The FY 1981 request is \$1.1 million less than FY 1980 because of reduced procurement of the P-12 structural fire

Materials Handling Equipment - Provides for procurement of 463L system forklifts and cargo loaders to support aerial port and munitions operations. The FY 1981 request is \$9.3 million less than FY 1980 primarily due to the buyout of wide-body aircraft cargo loading elevators.

Base Maintenance Support Equipment - Provides funding for construction and maintenance equipment required for alrifleld and ground maintenance. This category also includes equipment required to upgrade Rapid Runway Repair and Red Horse units. The FY 1981 program is \$1.1 million less than FY 1980 primarily due to the buyout of snow removal trucks in FY 1980.

(In Thousand of Dollars)
Direct Program Requirements - FY 1981 - \$707,759
Direct Program Requirements - FY 1980 - \$589,159
Direct Program Requirements - FY 1979 - \$524,764

ACTIVITY: Electronic and Telecommunications Equipment

PART I - PURPOSE AND SCOPE

Provides electronic and telecommunications systems for command and control of the operational forces, the detection of hostile forces, and Air Force-wide communications.

PART II - JUSTIFICATION OF FUNDS REQUESTED

control of the communications with the forces, wherever deployed. Provision is also made for the supporting structure requirements, such as enroute and terminal navigational and landing guidance, intelligence, and security of Air Force activities, facilities and personnel. Also included are items such as communications and navigation radio equipment, landline communications equipment, detection and surveillance radars, communications security devices, data processing and display equipment, meteorological equipment, peculiar test equipment used in the operation and maintenance of these systems, and the spares, repair parts, components, and modi-The funds requested provide for procurement of items of equipment and modifications kits, peculiar test and maintenance ment for electronic and telecommunications systems, subsystems, and supporting activities required for effective command and fication kits needed for assurance of effective and continued operation. The following table summarizes the program requirements for each of the major categories of equipment in the wast, current and

DIRECT PROGRAM REQUIREMENTS (In Thousands of Dollars)

	1979	1980	1981	
Communications Security Equipment Intelligence Programs	27,334 28,940	37,972 13,875 83,075	29,660 17,216	
Liectionics riograms Special Comm - Electronics Projects	156,907	240,178	152,420	
Air Force Communications	48,396	42,386	116,771	
DCA Programs	50,191	27,920	25,578	
Organization and Base	142,639	113,507	114,001	
Modifications	19,443	25,276	74,240	
Total Direct Program Requirements	524,764	589,159	707,759	

the procurement and installation of devices for encryption and decryption of communications, to ensure security of voice, teletype and data communications. Included is equipment to secure data networks and tactical radios. The FY 1981 request is approximately \$8 million less than the FY 1980 program because of reduced FY 81 requirements to secure new tactical equipment entering the inventory. Communications Security Equipment - \$29.7 million is requested for Communications Security Equipment.

Intelligence Programs - This program provides the equipment for worldwide USAF collection, processing, and reporting of intelligence information. The FY 1981 program is approximately \$3 million more than the FY 1980 program primarily because of increased requirements for the Intelligence Data Handling System.

ment. Included is equipment for Tactical Air Control Systems, the Defense Satellite Program, and tracking of space objects. The FY 1981 program increases by approximately \$90 million because of planning procurements for the Defense Support Program, the tactical Air Control Systems and the USAFE Command and Control program. Electronics Programs - This program includes electronic equipment to augment existing systems and to replace obsolete equipSpecial Comm - Electronics Programs - This program procures electronic equipment to satisfy specific mission requirements. Included are Automatic Data Processing Equipment; Air Base Defense Systems and equipment for operational range improvements. The FY 1981 program decrease of approximately \$88 million over FY 1980 is attributable to decreased procurements for the Spanish AC6W - This program procures electronic equipment to satisfy specific mission requirements. (Combat Grande), Air Base Defense programs and completion of the Joint Surveillance System procurement. Air Force Communications - These programs are the primary Air Force Communications terminal equipments used to provide common user facilities. Included are Air Force satellite communications terminals, equipment used in communications centers, and interoperable tactical ground equipment. The FY 1981 program increase of approximately \$74 million over FY 1980 is due to increased procurement for the Telephone Exchange, TRI-TAC, and ground mobile force terminal programs. DCA Programs - These programs are in support of the Defense Communications System. Included are the Wideband Systems Upgrade and the Automated Technical Control program.

Organization and Base - Included in this program is electronic equipment for individual Air Force units and bases. includes training equipment, mobility radios, NATO Readiness Enhancement equipment, spares and repair parts.

capability, or correct an operational deficiency. The FY 1981 program increases by approximately \$49 million because of improve-Modifications - This program is for the modification of existing electronic equipment to increase capability, provide a new ments to the Ballistic Missile Early, Warning System. (In Thousands of Dollars)

Direct Program Requirements - FY 1981 - \$1,801,826
Direct Program Requirements - FY 1980 - \$1,555,300
Direct Program Requirements - FY 1979 - \$1,388,180

ACTIVITY: Other Base Maintenance and Support Equipment

PART I - PURPOSE AND SCOPE

Provides ground support equipment, not otherwise provided with the major weapons systems, for operational forces and supporting structure. Included are test equipment, personal safety and rescue equipment, medical and dental equipment, and automated materials handling equipment for improving the efficiency of the Air Force supply and maintenance system.

PART II - JUSTIFICATION OF FUNDS REQUESTED

electronics equipment and communications apparatus; (2) personnel safety items to safeguard the lives of aircrew and other persondepots and passenger and cargo terminals; (4) electric power equipment and area lighting; (5) base support equipment, base level procurement of equipment with a unit cost of \$3,000 or more for medical, food service, repair, and administrative activities; (6) special support projects including national foreign intelligence programs, Air Force elements of the atomic energy surveillance program and industrial preparedness products to support production of equipment funded in this appropriation; and (7) modification kits requirements are computed considering world-wide nel; (3) equipment for repair and overhaul at maintenance shops, machanization of materials handling systems at Air Force bases The funds requested provide for (1) test equipment for maintenance, calibration, repair and checkout of weapon systems, authorizations and available assets, including reparables and those on order.

The following table summarizes the program requirements for each of the major categories of equipment in the past, current and budget year program.

DIRECT PROGRAM REQUIREMENTS (In Thousands of Dollars)

1981	33,744 33,744	107,970	1,593,048	\$1,801,826
1980	\$ 31,975 21,466 24,175	6,274	1,393,681	\$1,555,300
1979	\$ 30,322 21,068 19,358	1,992	1,241,086	\$1,388,180
	Test Equipment	Personal Safety & Rescue Equipment Depot Plant & Materials Handling Equipment	Electrical Equipment	Base Support Special Support

Total Direct Program Requirements

Major procurements planned in FY 1981 include:

\$900,000 each. The FY 1981 program is slightly more than FY 1980, for escalation and for the procurement of lower than \$900,000 Test Equipment - Provides calibration packages for Air Force bases and Air Logistic Centers, Precision Measurement Equipment Lest Equipment - Provides calibration packages for Air Force bases and Air Logistic equipment and other items costing less than Laboratories and Metrology Center, oscilloscopes, electronic counters, spectrometric equipment and other items costing less than

Personal Safety and Rescue Equipment - Provides anti-gravity garments, chemical and biological defense protection equipment and miscellaneous items costing less than \$900,000 each. The FY 1981 plogram is slightly more than FY 1980 with greater emphasis placed upon chemical and biological defense protection equipment.

Depot Plant and Materials Handling Equipment - Includes Base Mechanization Equipment (BME) for five Air Logistic Centers and various alr bases; Air Terminal Mechanization equipment for one CONUS and two overseas air freight terminals; and other maintenance ous air bases; Air Terminal Mechanization equipment for one CONUS and two overseas air freight terminals; and other maintenance and repair shop equipment costing less than \$900,000 each. The increase in FY 1981 program is an effort to update the BME and modernize shop equipment at bases and depots.

Electrical Equipment - Provides generators and other electrical items costing less than \$900,000 each. The FY 1981 program represents a slight increase over FY 1900.

equipment such as aircraft arresting barriers, cargo pallets, photographic equipment and spares and repair parts. The FY 1981 increase of \$30.2 million is mainly the result of increasing Medical & Dental Equipment, Base Procured Equipment and Productivity Base Support Equipment - Provides local purchase investment equipment with a unit cost of \$3,000 or more and centrally procured Enhancement while initiating a buy of Tactical Shelters, Productivity Investment, and Portable Aircraft Lighting Sets. Special Support Projects - Includes intelligence equipment and systems, industrial preparedness, and equipment modifications. An increase in the program for Selected Activities and the special update program along with increases for various line items within the program accounts for the increase of \$199.4 million in this program over FY 1980.

1980 PROGRAM

COMPARISON OF REQUIREMENTS AS SHOWN IN FY 1980 BUDGET WITH REQUIREMENTS AS SHOWN IN FY 1981 BUDGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Program Requirements 1980 Budget	Program Requirements 1981 Budget	Increases (+) or Decreases (-)
Munitions and Associated Equipment Vehicular Equipment Electronics & Telecommunications Equipment Other Base Maintenance & Support Equipment Reimbursable Program	\$ 335,000 157,400 619,400 1,559,300 127,120	\$ 330,882 157,400 589,159 1,555,300 252,453	- 4,118 0 - 30,241 - 4,000 +125,333
Total Fiscal Year Program	\$2,798,220	\$2,885,194	+ 86,974
	EXTINITY ANATION BY RIDGET ACTIVITY	CTIVITY	

Munitions and Associated Equipment (\$-4.1 million)

Congress deleted the MJU-7B infrared countermeasures flare (\$-4,1 million)

Vehicular Equipment (N/C)

Various internal program adjustments have been made, with no net change in the total vehicle program.

Blectronics and Telecommunications Equipment (\$-30 million) ۳.

Congress reduced the program by \$12 million. This included Intelligence Data Handling System (\$3 million), ADPE (\$2 million), Tactical Air Control System Improvements (\$2 million), Combat Supply System (\$5 million). \$18 million is being identified for reprogramming to other higher priority DOD programs, \$7 million to other DOD agencies, \$7 million to Missile Procurement, AF and \$3 million to the Other Base Maintenance account.

4. Other Base Maintenance and Support Equipment (-4.0 million)

Congress reduced the program by \$6.8 million. This included Base Procured Equipment (\$-4.0 million), Medical and Dental Equipment (\$-2.5 million), Tactical Shelter S-530 (\$-5.6 million) and Selected Activities (\$+5.3 million). An additional \$2.8 million was transferred from Electronics and Telecommunications Equipment.

5. Reimbursable Program (+252.5 million)

The increase of \$252.5 million is due to a revised estimate of customer orders anticipated in FY 1980.

COMPARISON OF FY 1980 FINANCING AS REFLECTED IN FY 1980 BUDGET WITH FY 1980 FINANCING AS SHOWN IN FY 1981 BUDGET

		(in Thousands of Dollars)	f Dollars)	
	Financing Per FY 1980 Budget	Financing Per FY 1981 Budget	Increase (+) or Decrease (-)	
Program requirements (Total)	\$2,798,220	\$2,885,194	\$+86,974	
Program requirements (Service account)	(2,671,100) (127,120)	(2,632,741) (252,453)	(-38,359) (+125,333)	
Anticipated reimbursable	127,120	252,453 13,600	+125,333	
Add: Transferred to other accounts	•	14,890	+14,890	
Appropriation	\$2,671,100	\$2,634,031	600,15-6	

EXPLANATION OF CHANGES IN FINANCING

Adjustments by The Fiscal Year 1980 program has been increased \$86,974 thousand since submission of the FY 1980 budget. categoxy of financing are explained below:

- Anticipated Reimbursements. The increase of \$125,333 thousand is due to a revised estimate of customer orders anticipated in FY 1980.
 - 2. Reappropriation. The increase of \$13,600 thousand is a financing adjusted directed by Congress, P.L. 96-154.
- 3. Transferred to Other Accounts. \$7,600 thousand is proposed for transfer to Missile Procurement, Air Force Fy 1980 and \$7,290 is proposed for transfer to Other DoD Agencies.

1979 PROGRAM

COMPARISON OF REQUIREMENTS AS SHOWN IN FY 1980 BUDGET WITH REQUIREMENTS AS SHOWN IN FY 1981 BUDGET

	Increases (T)	Decr	000	-14,800 - 2,972	-24,300	-10,368	-43,156	0 0	965,56-	
	Program	1981 Budget		305,276	134,490	1 388,180	157,244	 	2,509,954	
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)	Program	Requirements 1980 Budget		321, 076		790,645		i	2,605,550	
					Munitions and Associated Equipment	Vehicular Equipment	Electronics & Telecommunications squipment	Other base natherian	I impursable flogram	Total Fiscal Year Program

Total

EXPLANATION BY BUDGET ACTIVITY

Munitions and Associated Equipment (\$-14.8 million)

30MM HEI (\$-1.0 mil-

10 million was repro-Congress reduced the program \$4.4 million for a financing transfer to FY 1980. Programs reduced were: Lion), Laser Bomb Guidance Kit (\$-1.2 million), MJU-2 Flare (-\$1.1 million) and FMU Fuze (-\$1.1 million). grammed to the Operation and Maintenance, Air Force Appropriation.

Vehicular Equipment (\$-3.0 million) 7

Supplemental request to Congress for Material Handling Equipment was denied.

Electronic and Telecommunications Equipment (\$-24.3 million)

An \$18 million dollar reduction resulted from reprogrammings to higher priority Air Force requirements. \$17 million was reprogrammed to the Operation and Maintenance, Air Force Appropriation, and \$1 million was transferred to the Champus program. \$6 million was reduced by Congress as a financing transfer to FY 1980.

4. Other Base Maintenance and Support Equipment (\$-10.4 million)

Supplemental requests to Congress (\$6.0 million for Air Cargo Pallets and (\$2.5 million) for Intelligence Program were both denied. The Air Force reprogrammed \$1.0 million from Base Mechanization, and \$1.0 million from Chemical & Biological Defense Program to the Operation and Maintenance, Air Force Appropriation for higher priority Air Force requirements. An increase of \$1.1 million from Foreign Military Sales makes the net change to the program equal (\$-10.4).

5. Reimbursable Program (\$-43.2 million)

The decrease of \$43.2 is due to receipt of actual customer orders in FY 1979.

COMPARISON OF FY 1979 FINANCING AS REFLECTED IN FY 1980 BUDGET WITH FY 1979 FINANCING AS SHOWN IN FY 1981 BUDGET

	•	(in Thousands of Dollars)	Dollars)	
	Financing Per FY 1980 Budget	Financing Per FY 1981 Budget	Increase (+) or Decrease (-)	
	\$2,605.550	\$2,509,954	965,59-\$	
Program requirements (Total)	(2,405,150)	(2,352,710)	(-52,440)	
Program requirements (Service account)	(200,400)	(15/,244)		
	200,400	157,404	-42,996	
Anticipated Reimbursements	37,000	37,000	+37,000	
: p y	2,600	36,100	+30,500	
Transferred to other accounts	\$2,373,750	\$2,	\$-11,500	
Appropriation				

EXPLANATION OF CHANGES IN FINANCING

Adjustments by

Fiscal Year 1979 Program has been derreased \$95,596 thousand since submission of the FY 1980 budget. category of financing are explained below:

The decrease of \$42,996 thousand is due to receipt of actual customer orders in FY 1979.

 Transferred from other Accounts. The decrease of \$37,000 thousand is the result of redefining appropriation transfers
resulting from Congressional direction as reappropriations. Reappropriation is defined as amounts of new authority resulting from
Congressional direction des reappropriations and the funds that would otherwise expire. 3. Reappropriation. The increase of \$37,000 thousand is the result of redefining the Congressional directed transfer from FY 1978 Other Procurement, Air Force as a reappropriation.

4. Transferred to Other Accounts. \$5,600 thousand was transferred to Research, Development, Test and Evaluation, Air Force 1979, Transferred to FY 1979, 529,500 thousand was transferred of Operation and Maintenance, Air Force 1979, and \$1,000 thousand was transferred of Operation and Maintenance, Defense Agencies (CHAMPUS) FY 1979 in accordance with Section 834 of the FY 1979 DoD Appropriation Action and Maintenance, Defense Agencies (CHAMPUS) FY 1979 in accordance with Section 834 of the FY 1979 DoD Appropriation Action and Maintenance, Defense Agencies (CHAMPUS) 5. Unobligated Balance to finance subsequent year Budget Plans. Financing adjustment to finance FY 1980 program per Congressional direction contained in P.L. 96-154.

OTHER PROCUREMENT, AIR FORCE

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MUNITIONS DATA SHEET

P-1 Line Item: 8

Nomenclature: 20 MM Training

Mission/Description: The 20 MM ammunition with inert projectiles is used for training aircrews on a variety of aircraft gun systems.

Cost Data:

(In Millions of Dollars)

981	Ait	9.1
FY 1	Qtx	3,200,000 9.1
FY 1980	Qty Ant	9,042,000 21.6
FY 1979	VEZ AME	1,364,000 3.3

Basis for FY 1981 Request: The FY 1981 request is required to support projected peacetime consumption during the FY 1981 funded delivery period, and maintain pipeline/stock levels.

OTHER PROCUREMENT, AIR FORCE MUNITIONS DATA SHEET

P-1 Line Item: 9, 10, 11

Nomenclature: 30 MM Training/30 MM HEI/30 MM API Cartridges

Mission/Description: The 30 MM Cartridge used with the GAU-8 Gun System is designed to be effective against a broad spectrum of Close Air Support (CAS) targets. The GAU-8 is specifically designed to defeat Soviet medium/heavy tanks, which are critical CAS targets in a European conflict. The gun is effective against softer CAS targets, such as personnel, armored personnel carriers, and trucks. The GAU-8 Gun fire can be placed closer to friendly troops than other weapons due to its accuracy, amail lethal radius, and low probability of gross error. This contributes to the effectiveness of the A-10 aircraft for which it was designed.

	981	Amt	36.5 9.9	70.9
	FY 1981	Qty	3,500,000	3,100,000
In Millions of Dollars)	FY 1980	Oty Amt	30.2 18.8	102.1
(In Millions	FY	Qtx	3,450,000 1,458,000	5,883,000
	FY 1979	Amt	29.0 18.2	90.4
	FY 1	Qtx	3,450,000	5,883,000
Cost Data:			Training High Explosive	Incend (HEI) Armor Piercing Incend (API)

Basis for FY 1981 Request: The Fy 1981 request is required to support projected peacetime consumption during the FY 1981 funied delivery period, maintain pipeline/stocklevels, and procure an increment of the WRM inventory objective.

MUNITIONS DATA SHEET

P-1 Line Item: 14

Nomenclature: MXU-4A/A Engine Starter

Mission/Description: The MXU-4A/A engine starter is installed in aircraft starter assemblies to start turbojet engines on B-52, KC-135, F-111, F-4, F-105 and F-106 aircraft.

(In Millions of Dollars)

Lost Data:

 $\frac{\text{FY } 1979}{\text{QtY}} \qquad \frac{\text{FY } 1980}{\text{Amt}} \qquad \frac{\text{FY } 1981}{\text{QtY}}$

Basis for FY 1981 Request: To support peacetime requirements during the FY 1981 funded delivery period without drawing down peacetime operating and War Reserve Materiel (WRM) stock levels.

MINITIONS DATA SHEET

P-1 Line Item: 17

Nomenclature: MK-82 Bomb, Empty

Cost Data:

١-

simulate the drop Mission/Description: This is a 500 pound general purpose bomb filled with concrete, vermiculite or sand to trajectory of a high explosive bomb. It is used for afrerew training and proficiency.

 EV 1979
 FY 1979
 FY 1980

 QEY
 Amt
 QEY
 Amt

 29,028
 1.1
 14,612
 6.2

Amt

20,000

FY 1981

Basis for FY 1981 Request: The FY 1961 request is required to support projected peacetime consumption during the FY 1981 funded delivery period and maintain a pipeline/stocklevel.

MUNITIONS DATA SHEET

P-1 Line Item: 18

Nomenclature: BSU-49 Inflatable Retarder

Mission/Description: The BSU-49 Inflatable Retarder provides the USAF with the capability for supersonic, low-level delivery of MK-82 500-pound general purposes bombs. The pilot has the option of either high or low drag release. It consists of two majo assemblies; a low drag stabilizer and a ram air inflated retardation device which is stored in the stabilizer when not deployed.

Cost Data:

(In Millions of Dollars)

FY 1981	Qty Amt	4.8	
	SE SE	6,420	
FY 1980	Qty Amt	3.6	
FY	ZZ ZZ	3,500	,
			EV 1001 Decision of the EV 1001
FY 1979	Amt	1	
FY	SEX.	i	1
			FV 100
			. H
			0
			1991
			7

Request: The FY 1981 request provides for an additional increment of War Reserve Materiel (WRM) stocks Basis for

RDT&E Related Activity: PE 64602

MUNITIONS DATA SHEET

P-1 Line Item: 21

Nomenclature: Laser Bomb Guidance Kits

Mission/Description: The Laser Bomb Guidance Kit consists of a computer control group and an airfoil assembly that can be attached to 500-pound and 2,000 pound General Purpose Bombs. The computer control group contains a seeker head to detect laser energy reflected from a target illuminated by a ground or airborne target designator. The computer control directs the warhead on a line-of-sight trajectory to the target. This item is used by tactical aircraft against point targets such as bridges and refineries, and has a high degree of accuracy.

(In Millions of Dollars)

Cost Data:

PY 1981 Qty Amt	4,300 36.0
FY 1980 Qty Amt	4,300 34.0
<u>FY 1979</u> <u>Qtχ</u> Απτ	8,600 52.3

Basis for FY 1981 Request: The FY 1981 request is required to support projected peacetime consumption during the FY 1981 funded delivery period, maintain pipeline/stocklevels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

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OTHER PROCUREMENT, AIR FORCE MUNITIONS DATA SHEET

P-1 Line Item: 22

Nomenclature: GBU-15

Mission/Description: The GBU-15 Modular Guided Weapon System is a family of guidance, control, and airframe modules which, when combined with a warhead, can be configured as different weapons tailored for various attack and target conditions. The Cruciform Wing Weapon (CWW) which is planned for procurement in FY 81 is optimized for low altitude attack.

Cost Data:

(In Millions of Dollars)

FY 1981	Qty Amt	20.3
	QtX	09
FZ 1980	Amt	1
	Qty Ant	1
FY 1979	Qty Amt	1
	Qtx	!

Basis for FY 1981 Request: The FY 1981 program will procure an increment of the War Reserve Material (WRM) objective, and and support follow-on operational test and evaluation,

MUNITIONS DATA SHEET

P-1 Line Item: 23

Nomenclature: Bomb, Practice, BDU-33

Mission/Description: This 25-pound practice bomb has a teardrop shaped metal body with a tube cavity lengthwise through the center, a conical afterbody, and a cruciform type fin in the aft end of the bomb body. A firing pin, inertia tube, fing assembly and cotter pin are separate components of the bomb body. This bomb is used to provide the Tactical Air Force with aircrew weapons delivery training.

Cost Data:

ý.

 FY 1979
 FY 1980
 FY 1981

 QtY
 Amt
 QtY
 Amt

 441,600
 4.7
 565,000
 6.1
 600,000
 7.2

(In Millions of Dollars)

Basis for FY 1981 Request: The FY 1981 request is required to support projected peacetime consumption during the FY 1981 funded delivery period, and maintain pipeline/stocklevels.

MUNITIONS DATA SHEET

P-1 Line Item 27

Nomenclature: Aerial Tow Target

Mission/Description: The Aerial Tow Target System will be employed as a towed aerial target for use by tactical fighters and interceptor anivrews in developing and maintaining air-to-air gunnery skills. The system will also be used in operational testing and evaluation of guns, gunsights, gun directors and ammunition, and in tactics development.

Cost Data:

(In Millions of Dollars)

	1981	Qt y Ant	9.9
	7	Qt,	700
	1980	Qty Amt	3.2
FY	되	QE.y	300
	FY 1975	Amt	•
FY		QEX	i

basis for FY 1981 Request: Procurement is required to support projected peacetime consumption during the FY 1981 funded delivery period and maintain pipeline/stocklevels.

MUNITIONS DATA SHEET

P-1 Line Item: 30

Nomenclature: Flare, 1R, MJU-7B

Mission/Description: The MJU-7B is an infra-red countermeasures flare used by the F-4 aircraft to counter heat seeking missiles. It is dispensed from the AN/ALE-40(V).

Cost Data:

١.

(In Millions of Dollars)

9ty Amt	100,000
FY 1980 Qty Amt	i
FY 1979 QEY Amt	50.000 1.8

Basis for FY 1981 Request: Procurement required to support projected peacetime consumption during the FY 1981 funded delivery period, maintain pipeline/stocklevels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

AUNIT ONS DATA SHEET

P-1 Line 1tem: 32

1

Nomenclature: Flare 1k MJU-2

Mission/Description: This is an infra-red flare which contains a pyrotechnic grain that produces an infrared output intended to protect the RF-4C against heat seeking missiles.

Cost Data :

 (In Millions of Dollars)

 FY 1979
 FY 1980
 FY 1981

 QLY
 Amt
 QLY
 Amt

 38,000
 2.0
 56,000
 3.2

basis for FY 1981 Request: Procurement is required to support projected peacetime consumption during the FY 1981 funded

MUNITIONS DATA SHEET

P-1 Line Item: 33

Nomenclature: M-206 Cartridge Flare

Mission/Description: This flare will provide the A-10 aircraft self-protection countermeasures against I.R. homing threats. It is dispensed from the AN/ALE-40 dispenser system.

Cost Data:

(In Millions of Dollars)

	FY 1981	Qty Amt	1,000,000 16.9
(SIRITOR OF POLITARS)	FY 1980	Qty Amt	613,000 9.4
	FY 1979	New York	1,000,000 14.4

Basis for FY 1981 Reques: The FY 1981 request is required to support projects" peacetime consumption during the FY 1681 funded delivery period, maintain pipeline/stocklevels, and procure an increment of the War Reserve Materiel (WRM) inventory objective.

MUNITIONS DATA SHEET

P-1 Line Item: 40

Nomenclature: FMU-81

or Mission/Description: The FMU-81 is an impact short delay bomb fuze designed for use in nose and tail fuze wells of guided unguided low-drag general purpose bombs. The fuze will be used with laser guided bombs.

Cost Data:

(In Millions of Dorlars)

FY 1981	Qty	15,000 7.9
FY 1980	Qty Ant	6,000 4.4
FY 1979	Qty Ant	19,200 9.0

basis for FY 1981 Request: Procurement is required to support projected peacetime consumption during the FY 1981 funded delivery period, maintain pipeline/stocklevels, and procure an increment of the War Reserve Materiel (WRM) inventory objective, consistent with laser guided bomb fuzing requirements.

MUNITIONS DATA SHEET

P-1 Line Item:

Nomenclature: FMU-112

Cost Data :

1 -

Mission/Description: This is an electronic impact or short delay fuze designed to fit the standard 3-inch fuze well on such as the M-117 and the MK-80 series guided or unguided bombs. It is usable on both high and low performance aircraft.

bombs

(In Millions of Dollars)

間 FY 1980 000,6 FY 1979 Qty Amt

Qty Amt

13,000

Basis for FY 1981 Request: Procurement is required to support projected peacetime consumption during the FY 1981 funded delivery period and procure a time phased increment of the War Reserve Materiel (WRM) inventory objective.

MUNITIONS DATA SHEET

P-1 Line Item: 44

Nomenclature: MK-339 Mech lime

Mission/Description: The MK-339 is a mechanical time fuze used with chaff and liftlet bombs and cluster munitions which utilize the SUU-30 dispenser. It provides two pre-set pilot-selectable delay fuze function times (arming wires) each settable from 1 to 50 seconds in calibrated 0.1 second increments.

Cost Data:

(In Millions of Dollars)

1981 Amt	7.7
FY 1981 Qty Amt	25,000
FY 1980 Qty Amt	•
PY 1979 Qty Ame	į

Basis for FY 1981 Request: Procurement is required to support projected peacetime consumption during the FY 1981 funded delivery period, to maintain pipeline/stocklevels and to procure fuzes for selected cluster bombs currently in the War Reserve Materiel (WRM) stockpile to increase their operational effectiveness.



VEHICULAR DATA SHEET

P-1 Line Item: 47

Nomenclature: Bus, 28 Passenger

Mission/Description: This commercial bus equips our bases with a fuel efficient diesel vehicle for base shuttle bus operations and transport of large aircraft crews and related flight gear. It is also used to transjort dependent school children as well s large groups during military exercises.

Cost Lata:

 FY 1979
 FY 1980
 FY 1981

 Qty
 Amt
 Qty
 Amt

 4.2

(in Millions of Dollars)

Basis for FY 1981 Request: The inventory objective is 1458 with a procurement requirement of 958 through the FY 1981 funded delivery period. 150 are budgeted in FY 1981 deferring 808 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 48

Nomenclature: Bus, 44 Passenger

Mission/Description: This commercial bus supplies our bases with a large capacity fuel efficient diesel vehicle which is used primarily as a school bus for dependent children. It is used also to transport passengers to and from aircraft and terminals where distant aircraft parking or weather dictates.

Cost Data:

1581	Amt	5.2
FY	Qt Amt	120
0861	Qty Amt	2.6
FY]	SEX.	39
FY 1979	Amt	3.1
	QtX	7.5

(In Millions of Dollars)

Basis for FY 1981 Request: The inventory objective is 678 with a procurement requirement of 450 through the FY 1981 funded delivery period. The FY 1981 budget quantity is 120 deferring 330 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 49

Nomenclature: Truck Ambulance

Mission/Description: This is a four wheel drive field ambulance, powered by a gasoline engine with air conditioning. It is pable of transporting four litter patients or eight seated passengers.

	FY 1981 Qty Amt	3.2
	Qty PY	117
(In Millions of Dollars)	FY 1980 Qty Amt	
	FY 1979 Qt y Amt	23 .5
Cost Data:		

÷

basis for FY 1981 Request: The inventory objective is 658 with a procurement requirement of 357 through the FY 1981 funded delivery period. The FY 1981 quantity is 117 deferring 240 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 51

Nomenclature: Truck, Stake/Platform

movable stake siding and boards. Much of its use entails delivery of critical parts, equipment and other cargo to flight line tion, however, where mission permits, the downsized 1 ton version is purchased for increased fuel economy and maneuverability. Mission/Description: This vehicle is a gasoline engine driven commercial vehicle with enclosed cab, steel and wood body and re-

Cost Data:

FY 1981 Amt 킪 (In Millions of Dollars) Amt FY 1979 Qtχ Δπι 448

Basis for FY 1981 Request: The inventory objective is 4,568 with a procurement requirement of 2,029 through the FY 1981 funded delivery period. 326 are budgeted in FY 1981, deferring 1703 to subsequent years.

VEHICULAR DATA SHELT

P-1 Line Item: 54

Mission/Description: This is a standard commercial 1/2 ton pickup fruck with a six cylinder gasoline engine, two wheel drive and an automatic transmission. In addition to general transportation of cargo and personnel, it supports flight line, base maintenatiomatic transmission. In produce operations.

Cost Data:

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, **,**

FY 1981 Y Amt 1,087 (In Millions of Dollars) Amit FY 1980 FY 1979 614 SEZ

Basis for FY 1981 Request: The inventory objective is 11,076 with an FY 1981 procurement requirement of 8,183. 1,037 are budgeted in FY 1981 deferring 7,096 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item:

Truck, Pickup 1/4T, 4x2 Nomenclature: Mission/Description: This is a commercial, 4x2, 1/4 ton compact pickup truck used to transport light cargo and personnel. It is part of an Air Force program to selectively downsize to more fuel efficient vehicles, where possible, without causing adverse mission impact.

	981	Amt	3,9
	FY 1981	Qtx	200
1lars)			
(In Millions of Dollars)	FY 1980	Amt	1.0
	FY 1	352	200
T)	62	Amt	1.0
	FY 1979	Qtx	209

Cost Data:

Amt

Basis for FY 1981 Request: The inventory objective is 2,517 with an FY 1981 procurement requirement of 1,096. 694 are budgeted in FY 1981 deferring 402 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 58

Nomenclature: Truck, Carry all

Mission/Description: This is a commercial carryall, capable of carrying a minimum of eight passengers (including driver). The vehicle is used by communication, weather and radar sites as a combination cargo and group personnel carrier; by medical repair teams, to transport test and repair equipment to hospitals and medical facilities; by SAC missile and aircraft alert crews; and in some instances, as air transportation for personnel and their luggage,

Cost Data:

| 1979 | FY 1980 | 1 | Qty | Amt | Qty |

Amt

Basis for FY 1981 Request: The inventory objective is 2439 with a requirement of 986 through the FY 1981 funded delivery period. The FY 1981 budget quantity is 326 deferring 660 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 59

Nomenclature: Truck, Cargo, 2 1/2T, 6x6, M35

Mission/Description: This vehicle is of military design with open or closed cab and with lattice type side extensions. It is gasoline or multi-fuel engine driven with six wheel drive used to haul cargo and equipment, transport troops and their gear, and to tow trailers up to 10,000 lb.

Cost Data:

(In Millions of Dollars)

OCY FY	186
FY 1980 Qty Amt	i
FY 1979 Qty Ant	•

Basis for FY 1981 Request: The inventory objective is 3,802 with a procurement requirement of 2,964 through the FY 1981 funded delivery period. 186 are budgeted in FY 1981, deferring 2,778 to subsequent years.

VEHICULAR DATA SHEET

P-l Line Item: 60

Nomenclature: Truck, Cargo 5T, M813

Mission/Description: This is a military design truck. 5 ton, DED, 6x6 with a driving front axle, manual engagement, and 2 driv-ing rear axles. It is an all terrain vehicle used to transport personnel and cargo and is assigned primarily to USAF tactical mobility forces.

Cost Data:

(In Millions of Dollars)

1981 Ame	4.6
FY	93 4.6
<u>9ty</u> Amt	41 1.9
<u>FY 1979</u> <u>Qty</u> Amt	75 3.1

FY 1981 funded Basis for FY 1981 Request: The inventory objective is 470 with a procurement requirement of 234 through the delivery period. The FY 1981 budget quantity is 93 deferring 141 to subsequent years.

P-1 Line Item: 63

Nomenclature: Truck, Tractor, 5 Ton

Mission/Description: This is a standard design commercial truck tractor. It is equipped with automatic transmission, fifth wheel, and all electrical and air connections required for towing a trailer. It is used for towing trailers and semi-trailers to support medical missions, refueling operations, runway foaming, engine test stands, and trailers for instructional groups.

(In Millions of Dollars)
Cost Data:

981	Amt	3.0
FY 1	Qty Amt	91
980	Amt	4.1
FY 1	Qty Amt	135
FY 1979	Amt	3.5
FY	Qty	126

Basis for FY 1981 Request: The inventory objective is 1,221, with a procurement requirement of 653 through the FY 81 funded delivery period. The FY 1981 budget quantity is 91, deferring 562 to subsequent years.

VEHICULAR DATA SHEET

Mission/Description: This vehicle is a diesel engined 10 ton commercial 6x4 truck tractor. It is used for towing critical direct mission support equipment such as: F-6 and MJ-1 s (5000 gallon aircraft refueling trailers); MSG-1 mobile radar tracking direct mission support equipment such as: F-6 and MJ-1 s (5000 gallon aircraft refueling trailers; 11quid oxygen and nitrogen trailers, the Air Force Orientation Group audio-visual equipment vans; SAC LGM-30 missile trailers; 11quid oxygen and nitrogen trailers, the Air Force Orientation Group audio-visual equipment vans; SAC LGM-30 missile trailers; 11quid oxygen and nitrogen trailers, the Air Force Orientation Group audio-visual equipment vans; sAC LGM-77 runway foaming tanker fire trucks.

F. 1981 X Amt 얾 (In Millions of Dollars) 9.9 間 FY 1980 7.8 With the second FY 1979 197 Cost Data:

funded

Basis for FY 1981 Request: The inventory objective is 1,474 with a procurement requirement of 705 through the FY 1981 deferring 574 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 67

Nomenclature: Truck, Dump 5 ton

Mission/Description: This is a standard commercial dump truck, with enclosed steel cab, which is purchased in either 4 or 8 cubic yard capacities, and 4x2, 6x4 drive chassis configurations. It is used to haul and dump cleared materials such as dirt, rocks, trees, stumps and brush. During winter operations it becomes a direct mission support vehicle, critical to sanding of taxiways. runways and base roadways. The 4x4 and 6x4 types are extensively used in all terrain heavy construction operations

Cost Data:

(In Millions of Dollars)

1981	Qty Amt	4.0
FY	2	151
0861	Oty Amt	3.6
FY 1	Qţ.	157
Y 1979	VCY Amt	11,
141	3	418

basis for FY 1981 Request: The inventory objective is 1,891 with a procurement requirement of 576 through the FY 1981 funded delivery period. 151 are budgeted in FY 1981, deferring 425 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 73

Nomenclature: Truck, Tank, Fuel, 5,000 Gal, R-9

Mission/Description: This commercial-chassis, diesel-engine fruck has a 5,000 gallon tank with integral pumps and filters. is used to service all types of aircraft with fuel.

Cost Data:

 FY 1979
 FY 1980
 FY 1981

 QtY
 Amt
 QtY
 Amt

 17.5
 15.2
 12.0
 11.5

(In Millions of Dollars)

basis for FY 1981 Request: The inventory objective is 2,096 with an FY 1981 procurement requirement of 1,621. The FY 1981 budget quantity is 120 with 1,501 deferred to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 76

Nomenclature: Tractor, A/C Tow MB-2

ALSSION/DESCLIPTION: A commercial tractor which has a diesel engine and 4 theel drive. It tows aircraft up to 500,000 pounds including B-52 bombers, large cargo/refueling aircraft such as the C-141 and KC-135. These vehicles significantly enhance launch, turnaround and aircraft maintenance capability.

Cost Data:

	ty Ant	
	री की	
(In Millions of Dollars)	FY 1980 Qty Amt 56 4.0	
	<u>FY 1979</u> <u>QtY</u> Amt	

funded 81 FY Basis for FY 1981 Request: The inventory objective is 505 with a procurement requirement of 245 through the delivery period. The FY 1981 budget quantity is 61 deferring 184 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 78

Nomenclature: Tractor, Tow AGE, Wheeled

Mission/Description: This is a new vehicle recently introduced to the Air Force inventory for the purpose of replacing the aerospace ground equipment (AGE) tow tractor. Primary use of this tractor is towing and positioning support ground equipment around aircraft; however, when equipped with special trailer connections, it is also used for towing MHU-12M munitions trailers.

Cost Data:

(In Millions of Dollars)

4ty 1981 229 Amt 229 3.7	
FY 1980 <u>QEY</u> Amt. 106 1.5	
$\frac{\text{FY} 1979}{\text{Qt} \times}$ $\frac{24}{3}$	

FY 1981 funded Basis for FY 1981 Request: The inventory objective is 2,430 with a procurement requirement of 590 through the delivery period. The FY 1981 budget quantity is 229 deferring 361 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 81

Nomenclature: Armored Vehicle

tection on the sides top and underbody. The armor is capable of protecting occupants from small arms fire, granades, and flammable fluids. It is equipped with a rool ring mount for M60 type machine gun and firing ports for M16 rifles equipped with grenade launchers for use by four fully equipped security policemen, including the driver. It is used as an escort vehicle for SAC missiles being returned to base for maintenance and for perimeter patrol at missile sites.

	Y 1981	Qty Amt	3.9
of Dollars)	1980	Amt	6.2
(In Millions of Dollars) FY 1980			
	1979	Qty Amt	4.9
	X	Qty	150

Cost Data:

FY 1981 funded through the Basis for i'Y 1981 Request: The inventory objective is 634 with a procurement requirement of 261 delivery period. The FY 1981 budget quantity is 125 deferring 136 to FY 1982.

VEHICULAR DATA SHEET

P-1 Line Item: 87

Nomenclature: Extinguisher, Fire, 150 1b

It replaces the USAF CB (chloro-bromomethane) extinguishers declared hazardous by OSHA in 1974. Flight line extinguishers have not been purchased in 10 years and CB agen. is in critically short supply. Mission/Description: This is a wheeled 150 lb capacity vaporized liquid fire extinguisher designed for ramp use on small fires resulting from spills, run-ups, etc. It is designed to be used by non-professional fire fighters (usually aircrift mechanics).

	981	Amt	3.0
	FY]	Qty Amt	2,400
ons of Dollars)	FY 1980	ty Ant	,310 2.7
(In Mills	(In Millions of Dollars) FY 1980		
	FY 197	Qty Amt	700

Cost Data:

, l.

Basis for FY 1981 Request: The inventory objective is 13,462 with a procurement requirement of 9,987 through the FY 1981 funded delivery period. The FY 1981 budget quantity is 2,400 deferring 7,587 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 89

Nomenclature: Truck, Forklift, 4000 lb GED/DED 144"

Mission/Description: This commercial forklift has a diesel engine and a telescoping mast assembly which permits reaching heights from 68" to 144". It replaces both the 4000 pound standard mast forklift and 4000 pound low-mast forklift in the AF inventory. It is the basic general cargo handling forklift for traffic management operations, warehouses, and materials holding areas. This is a productivity enhancement vehicle which permits better utilization and efficiency of personnel and fuel.

Cost Data:

(In Millions of Doilars)

<u>FY 1981</u> <u>Qty</u> Απτ	3.2
SEX EN	189
980 Amt	3.2
FY 1980 Qty Amt	189
4.1	
Fr 1979 Qty Amt	-
ZI ZI	69

funding 1981 basis for FY 1981 Request: The inventory objective is 2043 with a procurement requirement of 1087 through the FY delivery period. The FY 1981 budget quantity is 189 deferring 898 to subsequent years.

VEHICULAR EQUIPMENT DATA SHEFT

P-1 Line Item: 90

Nomenclature: Truck Forklift, 6000 lb

Mission/Description: This is a 6000-lb commercial forklift with pneumatic tires and 168" lift capability. It is used for munitions handling, aerial port operations, base supply warehouses, maintenance shop and materials holding area support AF-wide. The equipment is purchased in electric, gasoline and diesel engined models, as well as in a rough-terrain configuration. The rough-terrain model is a support vehicle for USAF mobility units.

	981	Amt	4.6
	FY 1981	Qty	142
llars)			
ns of Do	086	Ant	3.5
(In Millions of Dollars)	FY 1980	Q£X	124
(In			
	6261	Amt	2.5
	FY 1979		123

Cost Data:

Basis for FY 1981 Request: The inventory objective is 1,741 wit a procurement requirement of 669 through the FY 1981 funded delivery period. The FY 1981 budget quantity is 142 deferring 527 to subsequent years.

VEHICULAR DATA SHEET

P-1 Line Item: 91

Nomenclature: Truck, Forklift, 10,000 1b

Mission/Description: This 10000 lb commercial forklift is used as the basic 463L system support vehicle to handle 108"x88" pallets in conjunction with pallet trailers. The vehicle is compatible with, and supports all strategic and tactical airlift aircraft except the wide-body Civil Reserve Air Force aircraft.

Cost Data:

(In Millions of Dollars)

FY 1981	ĕ	7.1
F	ZJ	151
FY 1980		10.3
FY	į	239
e de la companya de l	1	3.6
FY 1979 Otv Amt	1	83

Basis for FY 1981 Request: The inventory objective is 1817 with a procurement requirement of 774 in FY 1981, 151 are budgeted in FY 1981 deferring 623 to subsequent years.

P-1 Line Item: 95

Nomenclature: 25 A/C Loader

Mission/Description: This vehicle is diesel powered, air transportable and has an adjustable conveyorized cargo platform. It is used at major air cargo terminals for mechanized loading/off loading and ground transport of palletized air cargo; and provides minimum turn around time for cargo aircraft.

	FY 1981	Amt	3.2
	FY 1	Q£7	23
(In Millions of Dollars)			
s of Do	FY 1980	Oty Amt	6.2
M11110m	FY	Qt.y	20
(In			
	FY 1979	Amt	1
	F	OEX	ł
Cost Data:			

Basis for FY 1981 Request: The inventory objective is 413 with a procurement requirement of 336 through the FY 1981 funding delivery period. The FY 1981 budget quantity is 23 deferring 313 to subsequent years. A remanufacture program will satisfy the deferred quantity.

P-1 Linc Item: 100

Nomenclature: Loader Scoop

1% or 2% cubic yard capacity. It is used by Civil Engineering for base maintenance, construction/repair, bulk handling (rocks, sand, gravel), and snow removal, escavating, trenching and sanitary fill support at bases worldwide. It is also slated for Rapid Runway (RRR) in Europe and the Red Horse Modernization project. It comes in either pneumatic tired 4x4 or tracked configuration; depending on mission requirements. This family of vehicles can be defined as a diesel engined commercial scoop type front end loader of Mission/Description:

	E	Qtx
(In Millions of Dollars)	FY 1980	Oty Ant
	FY 1979	Amt
	FY	QEX

Cost Data:

A

FY 1981

Basis for FY 1981 Request: The inventory objective is 637 with a procurement requirement of 354 through the FY 1981 funded delivery period. The FY 1981 budget quantity is 53 deferring 301 to subsequent years.

68

134

P-1 Line Item: 103

Nome clature: Cleaner, Runway/Street

tary sweeper configuration and t mission support vehicle This is a commercial sweeper used on all airfield surfaces and streets to control foreign object Mission/Description: This is a commercial sweeper used on all airfield surfaces and streets to control foreign obj damage to aircraft tires and engines and sweep snow. Current assets are in poor condition and are rapidly becoming unsupportable due to age and lack of spares. The equipment is purchased in both the towed rotary sweeper configurat a self-prat SAC ar

towed rota s a direct		띪	Amt	3.0
in both the W sweeper in	~ l	FY 1981	Q£y.	69
tions the sno	In Millions of Dollars)	FY 1980	Ant	3,3
inter opera	In Million	M	Q _C y	78
During w		FY 1979	Amt	2.9
ction model.		Æ.	<u>Qt</u> x	111
d vacuum su				
a self-propelled vacuum suction model. During winter operations the snow sweeper is a direct of the snow snow snow snow snow snow snow snow				

Basis for FY 1981 Request: The inventory objective is 1003 with a procurement requirement of 682 through the FY 1981 funded delivery period. The FY 1981 budget quantity is 69 deferring 613 to subsequent years.

P-1 Line Item: 106

Nomenclature: Crane, 7-50 Ton

Mission/Description: These are commercial cranes used by civil engineering, munitions, aircraft maintenance, R&D contractors and ATC instructors. Specific mission requirements are: heavy cargo lifting, earth moving/ construction, munit.ons handling, SAC silo missile changes, ATC missile change training, ship loading/offloading, and aircraft crash recovery operations.

	981	Amt	3.9
(8)	FY 1981	Qty	41
In Millions of Dollars	980	Amt	3.9
Millions	FY 1980	Qtx	45
ij	FY 1979	Amt	1.5
	FY	Qty	13

Cost Data:

Basis for FY 1981 Request: The inventory objective is 562 with a procurement requirement of 233 through FY 1981. budget quantity is 41 deferring 192 to subsequent years.

P-1 Line Item: 10

Nomenclature: Modifications

Mission/Description: Provides for modification of vehicles to extend life expectancy, correct deficiencies, and avoid costly replacement programs.

	FY 1981	Qty Amt	3,8
(In Millions of Dollars)	FY 1980		1.0
디	FY 1979	Qty Amt	2.6
Cost Data:			

Basis for FY 1981 Request: To continue efforts begun in previous years. The largest project is the modification of the 25K Loader.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 124

Nomenclature: Traffic Control and Landing

jor functional areas: enroute and terminal navigation, approach and landing, air traffic control communications, and necessary interfaces with other systems (both National and International). Mission/Description: This program provides ground facilities and equipment (fixed and mobile) necessary to provide safe, orderly and expeditious USAF aircraft movements. Included are systems necessary for the DOD mission but not provided by the FAA in ma-

(In Millions of Dollars)	
Cost bata:	

FY 1981	Qty Amt	- 8,7
FY 1930	Qty Amt	6.6
FY 1979	Qty Amt	- 3.4

basis for FY 1981 Request: Procurement of open planar array antennas to eliminate the display of false or secondary radar returns at fixed radar sites and a new communications control system for USAF air traffic control facilities.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 12

Nomenclature: Tactical Air Control System Improvements (TACSI)

Mission/Description: This program provides tactical commanders with all mobile communications and electronic equipment required to control deployed tactical forces. This equipment is necessary for Commanders to effectively execute and control all tactical air operations such as counter air, interdiction, close air support, tactical air reconnaissance, tactical airlift, and air

Cost Data:

(In Millions of Dollars)

 FY 1979
 FY 1960

 Qty
 Amt
 Qty
 Amt

Amt

Qt,

FY 1981

Basis for FY 1981 Request: Procurement of System Trainer and Exercise Modules. The deployable sets will be usea to train TACS operations personnel in different mission functions associated with simulated air battle situations.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

Avaienclature; Detense Support Program

hission/Description: The Defense Support Program provides to the National Command Authorities. A secondary mission is to provide data on

(In Millions of Dollars) Cost Data:

FY 1981 Amt 얾 24.0 Amt 95 AV 16.7 国 FY 1979 Qty Am

busis for FY 1981 Request: Procurement of equipment to modify existing ground stations for compatibility with satellites containing enhanced capability; equipment to modify the Ground Communications Network to integrate the Simplified Processing Station and improve message survivability; and procurement of S-band Mobile Ground Terminals.

ELECTRONIC AND TELECONIMUNICATIONS DATA SHEET

P-1 Line Item: 129

Nomenclature: Spacetrack

Mission/Description: Spacetrack consists of 'adar and optical sensors and provides support to the Space Computation Center. The center takes data from assigned Aerospace Defense Command Sensors, contributing sensors/agencies and from scientific organizations for electronic processing

Cost Data:

(In Millions of Dollars)

FY 1981	Qty Amt	.,
FY 1980	QEY AME	- 1.2
FY 1979		- 15.2

to existing surveillance sensors basis for FY 1981 Request: To continue the GEODSS deployment (FCRC) and fund modifications which support the overall space defense mission of targeting and threat/damage assessment.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

्टर होस्य Item: 130

Nomenclature: USAFE Command/Control System

Mission/Descriction: The program is to improve the factical command, control, and communications capabilities available to CINCUSAFE/COMARNOS in the central region of Europe. The EIFEL/DISTEL portion of the program will use an ADP system developed by the German air Force to be installed in the Sembach Allied Tactical Operations Center (ATOC). The operational application of Special Intollagence Systems (OASIS) portion integrates intelligence and operational information in support of USAF operations. Sincepe.

 (In Millions of Dollars)

 FY 1979
 FY 1980
 FY 1981

 Qty
 Amt
 Qty
 Amt

 - .7
 - 12.3

Cost Data:

١.

Basis for FY 1981 Request: Procurement of ADP equipment required to support the EIFEL/DISTEL Automated Control and additional core and disk otorage capacity for OASIS.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 131

Nomenclature: Defense Meteorological Satellite Program (DMSP)

Mission/Description: The DMSP mission is to provide timely, high-quality global weather data to support special strategic missions and to provide direct real time readouts to mobile terminals to support local tactical operations. Two satellites are maintained in polar orbit at all times to provide global cloud cover data four times a day; in the early morning, near noon, the early evening and near midnight.

	6ty Amt	- 4.1
(In Millions of Dollars,	PY 1980 QLY Amt	- 3.5
	PY 1979 Qty Ant	- 6.7

Cost Data:

1 --

Basis for FY 1981 Request: Procurement of DMSP unique hardware to upgrade the command and control and mission data processing equipment to function with improved spacecraft and sensors.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 132

Nomenclature: lactical SIGINT Support

Mission/Description: This program will provide improved communications between the SIGINT collection systems and Tactical Air Control Systems.

Lost Data:

FY 1979 QEY Amt

H FY 1980 QEY Ar

(In Millions of Dollars)

Amt FY 1981

basis for FY 1981 Request: Procurement of AN/TSC-XX systems to be used in the mobile SIGINT environment. Also, replacement of outdated and unreliable communication vans in support of Emergency. Reaction Air Force Special Security office facilities.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 133

Anneholature: Transportable Ground Intercept Facility (TGIF)

collection and processing asset for Air Force tactical support. Coverage of certain essential targets is now concentrated in exposed forward ground facilities that will not survive the initial phase of combat and have insufficient range, both laterally and in depth. The IGLF will program will correct this deficiency. the principal h.selon/Pestipption: The IGIF and related intelligence collection packages carried by the

	FY 1981 Qty Amt	14.7
lions of Dollars)	FY 1980 3cy Ant Q	
(In Mi)	9ty 1979 Qty Ant	

Cost Data:

basis for FY 1981 Request: Procurement of equipment to upgrade the prototype IGIF.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 134

Nomenclature: Side Looking Airborne Radar (SLAR) Processing Equipment

Mission/Description: The SLAR UPD-4 system is the only reconnaissance system capable of detecting tactical size torgets that are fixed/mobile/moving/emitting/ non-emitting at large stand-off ranges. 12 UPD-4 systems are operational in Europe with one ground station at Zwiebrucken AB, Germany.

Cost Data:

١.

(In Millions of Dollars) Amt FY 1980 QEY AE FY 1979

Amt

16.8 Amt SEZ.

Besis for FY 1981 Request: Procurement of equipment to provide "wo complete ground stations, one each for USAFE a " PACAF.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 135

Nomenclature: TEREC Ground Processor

Mission/Description:

The Tactical Electronic Reconnaissance (TEREC) System provides Tactical Commanders with a capability to rapidly estabilish and maintain a hostile electronic order of battle. TEREC, through a UHF/HF radio data link from reconnaissance aircraft, provides data on location and operating characteristics of hostile emitters to ground based facilities for target selection, weapons selection and employment tactics. The TEREC Remote Terminal (TRT) is a portable ground processing device capable of receiving, formatting, and printing hard copy reports on emitter type and location to Tactical Command and Control/Operations personnel.

	FY 1981	Oty Amt	
(In Millions of Dollars)	FY 1980	Qty Ant	!
	FY 1979	Qty Amt	:
Cost Data:			

Basis for FY 1981 Request: Procurement of six TRT's and downlink simulator.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 136

Romenclature: Tactical Radar Equipments

Mission/Description: This program acquires three AN/TPS-43E radars to be used as repair cycle assets. Each of the AN/TPS-43E sets in the present inventory must be returned to Sacremento for depot overhaul once each five years. Acquisition of these repair cycle assets will prevent degradation to the operational availability of the AN/TPS-43E inventory.

젊
<u>FY 1980</u> , <u>Qt y</u> Amt
FY 1979 Qty Ant

11.0

basis for FY 1981 Request: Procurement of seven AN/TPS-43E repair cycle assets.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 137

Nomenclature: Automatic Data Processing Equipment

Mission/Description: This program provides automatic data processing equipment necessary for the Air Force mission. This procurement effort represents the most economic option based on current known factors such as price, purchase option terms and systems lite for USAF ADP inventory (installed and planned).

(In Millions of Dollars)

Cost Data:

<u>Γτ 1981</u> <u>Qτy</u> Amt	- 22.4
FY 1980 Qt Y Amt	- 25.7
FY 1979 Qty Amt	- 16.9

Basis for FY 1981 Request: Representative purchases planned are mass storage devices to upgrade Air Dufense Weapons Center; procurement of equipment for interactive Processing and Display System for the Air Force Global Weather Center; and purchase of enhancements to the Honeywell 68/80's at the AF Data Service Center to take advantage of accumulated purchase credits.

ELECTRUNIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 138

Nomenclature: World Wide hilitary Command and Control System (WWCCS) ADPE

MISSION/Description: The WWMCCS is the world-wide command and control system that provides the means for operational direction and technical administrative support involved in the function of command and control of the U.S. Military Force. In order of priority and emphasis, WWMCCS supports the National Command Authorities, Command and Control systems of Unified/Specified Commands and WWMCCS related management/inforwation systems of other DOD components.

(In Millions of Dollars)

Cost Data:

FY 1981		- 8.6
FY 1980	Qt X	- 4.5
FY 1979	Qty Amt	- 4.7

Basis for FY 1981 Request: Procurement of equipment to upgrade the Honeywell H6000 system supporting the Joint Deployment Agency mission at USREDCOM; equipment for the Communications Support Segment at NORAD; and equipment to upgrade/interface MAJCOM sysmission at USREDCOM; equipment for the Communications

ELECTRONIC AND TELECOMM NICATIONS DATA SHEET

P-1 Line Item: 141

Nomenclature: Spanish AC&W Upgrade (Combat Grande)

Mission/Description: COMBAT GRANDE is a joint project of the U.S. and Spanish governments to update Spanish air defense facilities. The project is a result of the 1970 Agreement of Friendship and Cooperation between the two governments. On 21 June 1976, the Senate ratified a new five-year treaty with Spain. The program will provide a ground based surveillance and control system to meet Spanish air defense requirements for high performance aircraft and increased security for U.S. forces based in

Cost Data:

(In Millions of Dollars)

1981	Qty Amt	5.3
FY	Qt.y	1
FY 1980	Qty Amt	- 29.2
1979	QCy Amt	4.8
2	걹	

Basis for FY 1981 Request: Procurement of miscellanous COMBAT GRANDE upgrades.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Lire Item: 143

Nomenclatu.e: Air Base Defense System

Mission/Description: Inis program provides for increased security protection of alert aircraft and special weapons storage areas through procurement and deployment of physical security sensor systems. Deployment of these sensor systems enhances security of interior and exterior sensors, and sensor related equipment configured as closed systems to protect storage areas, alert air-craft parking areas, and individual aircraft shelters. Sensor activations are transmitted to a local control area and to re-motely located displays. levels and results in an avoidance of personnel increases required to meet the increased terrorist threat. The systems

Cost Data:

(In Millions of Dollars)

Y 1981	Qt y Amt	17.
-	SEY.	•
980	lat	29.6
FY 19	Qty Amt	1
	ا ب	,o,
1979	Qty Amt	12.0
FY	Ş	í

ŵ

basis for FY 1981 Request: Procurement of equipment for the Perimeter Surveillance systems; buried line intrusion detectors; permanent individual resource protection sensors; and sheltered aircraft sensors.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

145 I-1 Line Item: SAMTEC COMM

Mission/Description: SAMTEC manages both the Eastern Test Range (ETR) at Patrick AFB, Florida, and the Western Test Range (WTR) at Vandenberg AFB, California. These Ranges support this nation's ballistic, space, aeronautical and guided missile programs.

Amt 3.4 FY 1981 क्ष । (In Millions of Dollars) <u>Ant</u> 3.7 FY 1980 QEY Amt FY 1979 SEX

Cost Data:

Basis for FY 1981 Request: To provide for the modernization of the telephone system at Ascension and Antigua; conversion of Basis for FY 1981 Request: To provide for the modernization of a Cape Canaveral microwave the Grand Bahamas Range Communications Control Center; replacement of radio equipment, acquisition of the WTR range timing the Grand Bahamas Range Communications systems expansion of the undersea cable system, modernization of the ETR teletype systems expansion of the undersea cable system, modernization of the ETR teletype systems. systems and modernization of the Vandenberg digital transmission system.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item, 146

Nomenclature: Range Improvement Equipment

equipment necessary to support the operational range mission. The primary function of this improved capability will be to pro-vide: overall range safety; real-time control of simultaneous missions; management of range resources; operational control of ment, and evaluation of existing and new capabilities in a realistic environment. This program provides instrumentation and Mission/Description: The operational range mission is to ensure combat readiness of aircrews through training, tactics developforces; information for real-time assessment of test and exercise objectives; and conservation of resources through a more eflective test and training capability,

Cost Data:

 FY 1979
 FY 1980
 FY 1

 Qty
 Amt
 Qty
 Amt
 Qty

 33.2
 24.1

(In Millions of Dollars)

Amt

basis for FY 1981 Request: Procurement of an Air Comhat Maneuvering Instrumentation System for Homestead AFB; upgrade and modernization of range instrumentation and the Arta collection center at the Utah Test and Training Range; and video edit, aircrew debr of and range instrumentation equipment for Nellis AFB.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 148

Nomenclature: Ground Directed Bombing System

Mission/Description: This program acquires a highly mobile, lightweight, self-contained, precision radar designed to provide all-weather, day/night support for aircraft flying strategic or tactical missions.

(In Millions of Dollars)	
Cost Data:	

FY 1981	7.4
Qty FY	
빏	
FY 1980 Qty Amt	٠
껆	1
ii.	
FY 19/9	1
ö	1

Basis for FY 1981 Request: Procurement of an additional three AN/TPB-1C radars to equip active Air Force units.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 150

Nomenclature: Space Snuttle

Cost Data:

೭ Mission/Description: This effort includes the proc. ement of hardware for the communications and navigational aids required support Space Shuttle operations at Vandenberg AFB (VAF.), Kennedy Space Center (KSC), and Johnson Space Center (JSC).

	FY 1981	Qtv. Amt	- 24.0
(In Millions of Dollars)	FY 1980	Qty Ant	25.2
	FY 1979	Qty Amt	- 13.5

Basis for FY 1981 Request: Procurement of communications security equipment for KSC and VAFB, a Microwave Scanning Beam Landing Systems Systems and communications support equipment such as an area varning system, and communications support equipment such as an area varning systems and an operational voice system.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 151

Nomenclature; Satellite Control Facility (SCF)

mission is two-fold: (1) to support systems test and operation of assigned DOD satellite programs with real-time telemetry, tracking, command and control, and (2) to provide the orderly planning, implementation, cperation, and maintenance of those support systems and equipment necessary to satisfy operational requirements. Mission/Description: The SCF is a National Range tasked to support the research, development, test evaluation, and operation of satellite systems of the Department of Defense. It consists of a Headquarters and the Satellite Test Center (STC) at Sunnyvale tracking stations. AFS, California, a communication satellite calibration site at Camp Parks, California, and ten remote

 FY 1979
 FY 1980
 FY 1981

 Qty
 Amt
 Qty
 Amt

Cost Data:

Amt

Basis for FY 1981 Request: To enhance the Data Systems Modernization program to met essential support requirements and reduce operations and maintenance costs. Procurement of a high efficiency telemetry system; a Radome for the SATCOM antenna at the Indian Ocean Station, communication equipments to replace degraded equipment and the upgrade of Oakhanger/ Guam Tracking Station.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 152

Armenclature: Restricted Airspace Control

mary objectives are to establish a single facility to control the entire restricted airspace and to establish a management and control system to allow optional joint and shared use by military and civilian users. The primary DOD users are the Naval Weapons Center at China Lake, the Air Force Flight Test Center at Edwards AFB, the Army's Fort Irwin and the 35th Tactical Fighter Wing at George AFB. Mission/Description: This program is a joint Department of Defense (Tri-Service), Department of Transportation (FAA) project for upgrading radar and communications facilities used to provide command and control in the R-2508 restricted airspace. The pri-

Cost Data:

(In Millions of Dollars)

FY 1981 Qty Amt	4.3
Sty FY	
Amt	4.5
FY 1980 Qty Amt	7
F. 53	1
a t	٠.
FY 1979 Qt <u>Amt</u>	7.3
ELZ]	í

China Lake 7 Basis for FY 1981 Request: To provide for procurement and installation of radar site/communications equipment Range Control Center.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 153

Nomenclature: Space and Missile Test Center/Western Test Range (SAMTEC/WTR)

Mission/Description: SAMIEC/WIR is an Air Force managed National Range headquartered or Vandenberg AFB, California. Launch pads and related support facilities are located at Vandenberg with telemetry, radar and optical tracking stations located on the California nainland, and stretching through the Pacific area. SAMIEC/WIR supports US space launches, ICBM testing and aircraft test flights.

Cost Data:

In Millicas of Doilars)

1981 Amt	4.6
FY 1981 Qty Amt	í
7ty Amt	9.4
ZI ZI	í
FY 1979 3ty Amt	5.1
Q C Z	ı

Basis for FY 1981 Request: Procurement of enhancements to the Range Safety Display System; Data Acquisition and Transmission Security hardware; Telemetry Doppler hardware; a Meteorological Sounding System; and replacement of outdated instrumentation; and computers for the Radar Embedded computer replacement project. It also provides the hardware for the Metric Data Processing Systems, the Range Safety Display System and the Integraded Meteorological Processing System; and an update of the Missile recorders for telemetry sites at Vandenberg AFS and Pillar Point AFB, operating system for the Data Processing Security Program Flight Control Center consoles and communication panels.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 154

Nomenclature: Constant waten

Mission/bescription: This program upgrades the Korean Tactical Air Control System and, in particular, provides the communica-tions and related Command and Control equipment to enable a hardened Tactical Air Control Center to function as a joint Control equipment to enable a hardened Tactical Air Control Center to function as a joint (USAF/KOKAF) facility. The existing tacility is extremely vulnerable and has insufficient communications for wartime opera-tions. The USAF/ROKAF Memorandum of Understanding calls for the ROKAF to provide the required facility and for the USAF to intions. The USA:/ROKAF Memorandum or Understanding caixstall and operate communications and display equipment.

Dat
Cost

	FY 1981 Qty Am	
(In Millions of Dollars)	FY 1980 Qty Amt	- 2.2
	FY 1979	3.0
	0	1

Amt 5.8

Basis for FY 1981 Request: Procurement of additional communications and automated data processing equipment to support the Kore-an lactical Air Control System and the Korean Air Intelligence System.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 157

Nomenclature: Telephone Exchange

Mission/Description: This program replaces existing government owned central office telecommunications telephone systems with a standardized electronic telecommunication system telephone switch at Air Force installations. Additionally, digital telephone switches-interoperable with the European all beanstalled in semi-hardened facilities at European air bases.

(In Millions of Dollars) Cost Data:
 FY 1979
 FY 1980
 FY 1981

 Qty
 Ant
 Qty
 Ant

 4.1
 18.7

Dasis for FY 1981 Request: Procurement of dial-central switches for Vandenberg AFB, Wright-Patterson AFB, Kirtland AFB and European Survivable switches.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line ltem: 158

Nomenclature, Joint Tactical Communications Pickram (TRI-TAC)

commonly

þe

Mission/Description: This joint service program acquires interoperable tactical communications equipment which can used in combat. This nardware will upgrade current systems from an analog to a digital communications capability.

(In Millions of Dollars) 8.4 Amt FY 1980 Qt y And FY 1979 Oty Ami tost Data:

Basis for FY 1981 Request: Procurement of TROPO Scatter Radios AN/TRC-170, which will provide a totally securable, wideband point to point transmission system on the tactical battlefield.

FLECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 159

Nomenclature: USREDCOM

Readiness Com-Mission/Description: Th.s program acquires tactical communications - electronics equipment to support the U.S. mand, USAF and USA share equally in program acquisition costs.

Cost Data:

(In Millions of Joltars)

<u>PY 1981</u> <u>Qty</u> Amt	7.8
 FY 1980 Qty Amt	2.1
PY 1979 QEY Amt	۱ ئ

Basis for FY 1981 Request: Procurement of AN/TRC-170 Tropo Scatter Radios and TSC-60 high frequency radios. These will be used by the Joint Communications Support Element when deployed in support of crises around the world.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 160

Nomenclature: Air Force Satellite Communications System (AFSATCOM)

Mission/Description. This program procures the ground communications segment of the AFSATCOM system which will provide a surviv-able and reliable means for the National Command Authorities to disseminate command and control information to the Single In-tegrated Operational Plan forces during pre-, trans-, and post attack environments.

Cost Data:

(In Millions of Dollars)

FY 1981 Amt 22.1 W W FY 1980 Qt y Ar Amt |

basis for FY 1981 Request: Completion of the Launch Control Center terminal procurement, and procurement of five Single Channel Transponder Injection Subsystems for use with the Defense Satellite Communications System.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 161

Nomenclature: Automated Telecommunications Program

Mission/Description: This program will provide hardware to automate selected telecommunications centers.

(In Millions of Dollars) Cost Data:

FY 1981 FY 1980 Qty Amt Basis for FY 1981 Request: Procures autodin terminals and optical character recognition equipment for telecommunications centers.

OTHER PROCUREMENT, AIR FORCE

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 162

Nomenclature: Teletypewriter Equipment

hission/beacription: This program will replace obsolete and unsupportable fixed plant and tactical teletypewriters with state-of-the-art equipment,

Cost Data:

(In Millions of Dollars)

FY 1981	Ant	7.0
FY	Ęţ	
980	QCX Amt	3.2
FY 1	Ž	ı
FY 1979		í
2	S)	1

Basis for FY 1981 Request: Procurement of Fixed Plant Teletypewriters.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 163

Nomenclature: Ground Mobile Force Terminal

Mission/Description: This program provides mobile satellite communication terminals using DSCS satellites to overcome serious communications deficiencies in the Tactical Air Control System and increase the effectiveness in which tactical air power is em-

Cost Date:

 FY 1979
 FY 1980
 FY 1981

 Qty
 Amt
 Qty
 Amt

15.5

Basis for FY 1981 Request: Procurement of AN/TSC-100A and AN/TSC-94A terminals.

ELECTRONIC AND TELECOMMUNICATIONS JATA SHEET

Nomenclature: Wideband Systems Upgrade

Mission/Description: This program improves the reliability/maintainability/performance of selected Defense Communications Systems Wideband transmission facilities. Improvements will provide digital equipment and enhance the quality of communications to tems Wideband transmission facilities. Improvements will provide digital equipment and enhance the quality of communications to support such systems as AUTODIN, AUTOVON, AUTOSEVOLOM and Command and Control Networks supporting Unified and Specified Commanders. These facilities are scheduled for updating based on the DOD system improvement plan prepared by the Defense Communications Agency.

Cost Data:

Amt 9ty A Jar Jar FY 1979

(In Millions of Dollars)

Basis for FY 1981 Request: FY 1981 funding supports the Digital European Backbone (DEB), which will provide a wideband digital transmission system in the European Theater by acquiring equipment for 11 additional sites; and continues the VFCT and DCS ortransmission system in the European Theater by acquiring equipment for 11 additional sites; and continues the VFCT and DCS or derware procurements.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 166

Nomenclature: Automated lechnical Control

Mission/Description: This program will procure processor or assisted capabilities for the Defense Communication System (DCS). It provides the basic building block capability for implementing System Control in the DCS. System Control, which consists of achieved and maintained in a cost effective manner.

Cost Data:

(In Millions of Dollars)

	FY 1981	Qt y Amt		- 3.6
FV 1080	1300	Ary		۲.7
FY 1979	Qty Amt		- 7.8	

Basis for FY 1981 Request? Procurement of additional station level equipments.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 170

equipment required to update the USAF test and training ranges. Many aircraft combat losses in Southeast Asia were traced to the lack of a capability to conduct operational training, testing and evaluation in a realistic combat environment. Studies show that it a combat crew survives the first ten missions, its victory/survivability chances increase 50 percent. This program show that it a combat crew survives the first ten missions, its victory/survivability chances increase 50 percent. This program provides the necessary equipment to permit aircrews to gain this level of experience under mock combat conditions. Myssion/Description: In 1970, the Air Force prepared a consolidated plan for the development and procurement of critical threat

(In Millions of Dollars)

則 ğ Amt FY 1980 Cty Ant FY 1979 QEY

Cost Data:

lator an MPQ-T3 AAA Emitter; an MIE-6 Modular Inreat Emitter; an AN/MLQ-T2 communications jammer; and AN/MSQ-T11A acquisition Basis for FY 1981 Request: Procures MST-T1 Multiple Threat Emitter; MSR-T1 Receiver; Tactical Radar Threat Generators; C2 simuradars.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 178

Nomenclature: Radio Equipment

Mission/Description: This program will replace outdated and nearly obsolete inventory for which many manufacturers will no longer supply spare parts. Much of the equipment in use is more than 20 years old.

Cost Data:

(In Millions of Dollars)

<u>FY 1979</u> Qty Amt

<u>9ty Amt</u>

FY 1981
Qty Ant

Basis for FY 1981 Request: Procurement of R-390 radio receivers; and upgrade of the HF Cemetary Network by acquiring and installing new radio voice and teletype systems.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 181

Nomenclature: Communications-Electronics Class IV Modifications

Mission/Description: Class IV modifications are defined as:

Safety Modifinations, usually of an urgent nature, to eliminate radiation, electrical or physical hazards.

Correction of Deficiencies Modifications required to improve reliability and maintainability, electro-magnetic compatability or communications security.

Logisting. Modifications to extend service life, improve logistic support posture, or operating or reduce c. Logisti support costs.

(In Millions of Dollars) Cost Date:

 FY 1979
 FY 1980
 FY 1981

 QEX
 Amt
 QEX
 Amt

 12.5
 11.3
 16.0

basis for FY 1981 Request: Procurement of modifications to TACAN/VOR equipment to replace selected components with those of solid state design and a similar modification to the AN/FPS-77 weather radar. Also permits continuation of the RF translator modification effort.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

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P-1 Line Item: 187

Nomenclature: Traffic Control and Landing System (TRACALS) Modifications

Mission/Description: This program provides modifications to ground facilities and equipment (fixed and mobile) necessary to provide safe, orderly, and expeditious world-wide USAF aircraft movements. Included are systems necessary for the DOD mission but not provided by FAA in major functional areas: enroute and terminal navigation, approach and landing, air traffic control communications, and necessary interfaces with other systems (both National and International).

(In Millions of Pollars) Cost Data:

 FY 1979
 FY 1980
 FY 1981

 Qty
 Amt
 Qty
 Aut

 Ant
 Ant
 Aut
 Aut

Basis for FY 1981 Request: Procurement of equipment to correct deficiencies on the AN/TFN-19 Landing Control Central; and modification of the OJ-314 Communications Control Systems.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 185

Nomenclature: ballıstıc Missile Early Warning System (BMEWS)

Mission/Description: The BMEWS provides detection and warning of a mass ICBM and/or SLBM raid launched over the Northern, Pacif-ic, Atlantic and Polar regions to impact on the North American Continent, and of a mass IRBM raid against the United Kingdom. A secondary role is to provide Satellite detection and tracking data to the SPACETRACK system.

	FY 1981 Qty Amt	0.44.0
<u>(8)</u>		4
ions of Dollar	FY 1980 Qt y Amt	1
(In Milli	O ₁	•
	FY 1979 Qt.y Amt	0.9
••		
Cost Data		

Basis for FY 1981 Request: Procures equipment for the upgrade of the detection radar including the Missile Impact Predictor growth, at Thule Greenland. This upgrade will permit the detection of reentry vehicles, the confirmation of satellite early warning data, and provide higher confidence attack characterization.

ELECTRONIC AND TELECOMMUNICATIONS DATA SHEET

P-1 Line Item: 186

Nomenclature: Tactical Equipment Modifications

Mission/Description: This program provides increased capabilities for the current ground Tactical Communications - Electronics inventory.

Cost Data:

(In Millions of Dollars)

FY 1981 Qty Amt	9.1
Oty A	1
FY 1980 Qty Ant	- 3.7
FY 1979 QEY Amt	,

Basis for FY 1981 Request: Procurement of Ultra Low Sidelobe Antennas to be installed on AN/TPS-43E radar sets. This modification will significantly decrease the radar susceptablity to interference, enemy stand-off jamming and destruction by antiradiation missiles.

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 187

Nomenclature: Base/ALC Calibration Package

Mission/Description: The Base/ALC Metrology and Calibration (METCAL) Equipment Program provides calibration standards grouped in a series of generic measurement packages or consoles, to all major Air Force activities having a Base Precision Measurement Equipment Laboratory (BPMEL). There are 116 BPMELs supported.

	981	Ant	6,1
	FY 1981	QEX	1
(In Millions of Dollars)		ļļ.	6.9
lions o	FY 1980	Qty Amt	3.9
(In M11		허	ł
7	6261	Amt	3.5
	FY 1979		}
•••			
Cost Data:			

Basis for FY 1981 Request: To provide equipment to enable each major Air Force activity to attain standardized measurement and optimum self-sufficiency in the calibration and maintenance of critical precision measurement equipment (PME) required for daily base operational capability.

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 190

Nomenclature: Signal Generator

Mission/Description: This is a general purpose commercial multi-application VHF-UHF radio frequency signal generator which produces modulated or unmodulated signals in frequency range of 0.5 to 512 MHZ. It is used to test and align airborne and ground radio receivers and associated electronic equipment.

	FY 1981
(In Millions of Dollars)	FY 1980
•	FY 1979
Cost Data:	

Ant 5.0

Q£X 700

Amt 4.6

<u>2</u>tz 700

Ant 5.5

Qt.y 880 Basis for PY 1981 Request: Provides current state of the art signal generators to replace obsolete and unrepairable sign. I generators now in the inventory and to keep pace with modern technology.

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 194

Nomenclature: Laser Acquisition Device (LAD)

Mission/Description: This device attaches to the aircrew members helmet. It senses laser energy from a designated target and directs head motion until the designated target is within the aiming reticle. This reduces target acquisition time in the target area.

Cost Data:

1981	Y'Y	8.9
FY	717	400
086	Ame	6.2
FY 1	YEY AME	251
979	Amc	1
FY 1979	ZZ ZZ	í

(In Millions of Dollars)

Basis for FY 1981 Request: The FY 1981 request provides for procurement of an additional 400 units against an established requirement of 1,851 units.

OTHER BASE MAINTÉNANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 195

Chemical and Biological Defense Program Nomenclature:

Mission/Description: This program is for procurement of chemical and biological defense equipment to enhance survivability and enable AF units to conduct operations in a toxic environment.

(In Millions of Dollars)

Cost Data:

, v

8.0 Amt FY 1980 Qty Amt Amt 9.7 FY 1979 2EY Ami

11.0

9ty Am

Basis for FY 1981 Request: Provides funding for procurement of Advanced Decontamination Equipment, Advanced Point Detectors, and Aircrew Respirator System to enable USAF forces to perform mission operations in an otherwise lethal environment. Increased emphasis on chemical and biological defense requires that the forces be provided this new and improved equipment.

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 197

Nomenclature: Base Mechanization Equipment

The use of machanized equipment eliminates multiple handling of materials and provides: responsiveness to the needs of the customer through maximum material handling productivity; maximum flexibility at minimum investment cost; simplification of parts inventory and maintenance tasks and safe and efficient operations. The Air Force requires adequately equipped tacilities, in which to maintain and store weapon the most efficient and productive manner possible. Modern equipment is needed to achieve this objective. Mission/Description: systems/supplies in

Cost Data:

Š (In Millions of Dollars) 目 11.7 FY 1980 QEY 闦 FY 1979 SEZ

Basis for FY 1981 Request: To modernize material handling for maintenance supply and distribution functions in the AFLC Logistics Centers and certain bases. The system and equipment to be procured result from economic analysis/industrial engineering studies which indicate a substantial cost saving or valid mission need.

UTHER BASE MAINTENANCE & JUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 200

Nomenclature, Power Plant A/E 24 U-8

Mission/Description: This is a light weight and air transportable power plant consisting of two 60/120 KW gas turbine generator sets mounted on a pallet which includes a distribution panel fuel system and cable storage.

	Qty Amt	18 3.9
llars)		18 3.5
(In Millions of Do	<u>FY 1979</u> <u>Qty</u> Ant	1
Cost Data:		

Basis for FY 1981 Request: To provide compact portable, uninterruptable power for communications and electronic equipment used in support of the Tactical Air Control System and the USAF Security Service programs.

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 202

Nomenclature; Base Procured Equipment

Mission/Description: Bases and Units throughout the Air Force require and are authorized equipment that must be acquired direct-ly from GSA, DLA, one of the other Services or from commercial concerns. This program provides funds for local procurement of equipment costing \$3,000 or more each. Included are roads and grounds maintenance equipment; vehicle maintenance shop equipment; word processing equipment; specialized tool kits and test equipment; civil engineer maintenance, electrical, and carpenter shop equipment; specialized laboratory equipment; foreign electric power converters; food service equipment; printing plant equipment; refrigerators, freezers and air conditioners; heating equipment; m.croform equipment; office revairs and communications equipment. None of this equipment is centrally procured.

	Oty Oty
	<u>FY 1980</u> <u>Qt</u> χ Απτ
(In Millions Dollars)	FY 1979 QLY Amt
Cost Data	

Basis for FY 1981 Request: The request provides for procurement of authorized equipment to support day to day operation of 134 air bases and 2719 smaller installations and to provide a minimum acceptable work and living environment for military and civil-The request provides for procurement of authorized equipment to support day to day operation of 134 lan members of the Air Force.

z 1000 1

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item.

Medical and Dental Equipment Nomencleture:

Cost Data:

Mission/Description: This program provides medical and dental equipment for the Air Force Medical Service in support of a world-vide comprehensive health care system. It supports hospitals, clinics, a global aeromedical evacuation system, physiological training units, and specialized medical and dental training facilities and laboratories.

30.6 FY 1981 Qty. (In Millions of Dollars) 副 22.2 FY 1980 FY 1979 Qty Amt 20.8

Amt

Basis for FY 1981 Request: It provides for replacement of equipment worn beyond economical repair; modernization of obsolete equipment; real property installed equipment for medical facilities; and procurement of War Readiness equipment.

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 208

Nomenclature: Pallet, Air Cargo, 108" x 88"

Mission/Description: This paller is an integral part of the 463-L cargo system for the C-5, C-141, C-130 and KC-16 sircraft. They provide a means to expedite cargo handling and rapid turnaround of sircraft in both peace and war enviorrments.

(In Millions of Dollars)

Cost Data:

1981		11.1	o partition of
FY 1	Qt.	12,000 11.1	
1980	Qty Amt	10.0	
FY 19			
6261	Amt	16,552 9.6	
÷	SEX	16,552	

basis for FY 1981 Request: 12,000 pallets are required to replace condemnations and louses, and to build toward an inventory objective sufficient to fully support airlift capabilities in war.

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 211

Nomenclature: Tactical Shelter S-530

Mission/Description: This shelter provides space and environment required for Combat Communications and Tactical Air Control units to maintain sophisticated communications - electronics equipment in the field.

ars)	FY 1981	Qty Amt	58 5.6
is of Doll	980	Amt	1
(In Millions of Dollars)	FY 1980	Q£Z	!
믹	676	Amt	ł
	FY 1979	Qty Amt	1
Cost Data:	į		

Provides for procurement of 58 tactical shelters against an Air Force requirement of 314 units. Basis for FY 1931 Request:

O'THER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item. 21

Nomenclature: Productivity Enhancement

Mission/Description: This program will provide funds for the Fast-Payback Capital Investment Program, a program to enhance productivity and reduce operating costs. Equipment purchased is identified by organizations throughout the Air Force with the commensurate savings and amortization data specifically identified. Amortization must be achieved within two years and items procured must be commercially available so they may be put into use in the minimum time.

	981	Amt	4.4
	FY 1981	gex.	ļ
(In Miliions of Dullars)	ଥା	Ant	3.8
n Miliions	FY 1980	Qty Amt	ł
티	-1		3.6
	FY 1979	Qty Amt	1
æ			

Basis for FY 1981 Request: A two year saving of \$3,9 million (over the cost of the equipment) and a life cycle saving of \$3,2 million is expected to result from the FY 1981 program.

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Itam: 214

Nomenclature: Productivity Investments

Mission/Description: This program will provide funds for the Productivity Investment Program, a program to purchase items costing over one million dollars, to enhance productivity and reduce operating costs. Equipment purchased is identified by organizations throughout the Air Force with the commensurate savings and amortization data specifically identified. Amortization must be achieved within four years and items procured must be commercially available so they may be put into use

(In Millions of Dollars)

FY 1979 FY 1980

QEY Amt QEY Amt

Cost Data:

ij

CK

4.3

Equipment (\$1.7 million), Advance Word Processing System (\$1.3 million) and the Air Force Portion of the Transportation Opera-Basis for FY 1981 Request: Provides funds for projects that have a greater than ten partent anternamed and exhibit manpower savings. These funds cover four projects; Intrusion Detection System (\$.6 million), Numerical Control of the Ast Parten of the Transportation Opers

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 219

Nomenclature: Scientific/Technical Intelligence

Mission/Description: This program provides data reduction, photo processing, and printing equipment for the Foreign acrospace Technology Division (FTD). FTD provides scientific, engineering, and technical intelligence information on foreign serospace activities and related efforts. FTD also supports Air Force and DOD inputs to the National Intelligence Estimates (NIEs), maintains the only DOD scientific and technical (S&T) intelligence reference library, and acts as DOD executive agent for radar and infrared Intelligence data processing.

٦	FY 1981	Qty Amt	3.1
(In Millions of Dollars)	FY 1980	Amt.	!
In 1111.	¥	QEY	!
•		Qty Amt	5.1
	FY 1979	<u>9tx</u>	ł
Cost Data:			

Basis for FY 1981 Request: To provide improved data analysis and production capabilities, replace old and obsolescent equipment, and acquire the test and calibration instruments necessary to operate and maintain existing systems.

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 221

Normalature: Air Force Technical Applications Center

Pission/Lescription: This program supports the Atomic Energy Detection System operated by the Air Force Technical Application Center. It provides the primary national technical means for verifying compliance of signatory states with terms of the Limited Test ban Treaty, Threshold Test Treaty, Peaceful Nuclear Explosion Treaty and the Comprehensive Test Ban Treaty currently under

Cost Data:

(In Millions of Dollars)

FY 1981	Qty Amt	5,3
FY 1980	Ot y Amt	8.3
FY 1979	ACT AME	- 11.0

Basis for FY 1961 Request: Provides a variety of equipment required for seismic, nuclear debris collection and analysis,

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 222

Nomenclature: Imagery Collection

This program supports Defense Mapping Agency for development of a metric approach to navigation and Mission/Description:

	FY 1981	Qty Amt	3.1
(In Millions of Dollars)	FY 1980	Qty Amt Qty	4.2
7	FY 1979	Qty Amt	7.3
Coar Data:		51	

Basis for FY 1981 Request: To provide funds to support the mission of this classified program.

OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT DATA SHEET

P-1 Line Item: 225

Nomenclature: Industrial Preparedness

Mission/Description: This program provides the resources required for all plans, actions, or measures necessary to establish or maintain an industrial base, both government-owned and privately-owned to support current, wartime or other contingency military requirements. It includes industrial preparedness planning, modernization and maintenance on government-owned production and a manufacturing techhology program which is designed to improve productivity and lower costs.

	981	Amt	10.2
	FY 1981	SEX.	ì
An militains of correctly	O.	Ant	3.2
211111	FY 1980	Qty Ant	1
E III			
	FY 1979	Amt	2.2
		OEX	ł

Cost Data:

Basis for 1981 Request: The request represents a continuing effort to support industrial preparedness objectives primarily for the Electromagnetic Window/Electronics focal area and the Munitions focal area of the Manufacturing Technology Programs Emphasis is on the expendable portion of munitions and ground based sensing and electronic sub-systems in support of tactical missile or space systems.

ANALYSIS OF UNOBLICATED BALANCES - 30 SEPTEMBER 1981
SUMMARY SY CATEGORY
(In Milli of Dollars)

	FY 1580	FY 1981	Total	% of Total Unobligated
Military Interdepartmental Purchase Requests: (MIPRs)	\$32.8	\$95.4	\$128.2	13.0%
Completing Contractual Arrangements:				
a. Specification Definitions	39.6	115.2	154.8	15.7%
b. Price Redeterminations	28.5	82.9	111.4	11.3%
c. Definitization of Contracts.	9.04	118.2	158.8	16.1%
Full Funding Policy:				
a. Delayed/Revised Program Release	68.7	199.6	268.3	27.2%
b. Engineering Changes	42.1	122.6	164.7	16.7%
TOTAL UNOBLIGATED FY 1981	\$252.3	\$733.9	\$986.2	

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EXPLANATION

procurement funds are available for obligation for three years because of the extensive lead time required to develop de-tailed specifications, issue Requests For Proposals (RFPs) and to negotiate and finalize contracts for procurement of investment equipment. Unobligated balances are required for programmed and needed items on which contracts have not reached the obligational

stage by the end of the fiscal year because of the procurement process.

The following are illustrative of the reasons which will cause unabligated balances at the end of each fiscal year:

- 1. Military Interdepartmental Purchase Request (MIPRs) (\$128.2 million) These documents are used to request one of the other service. Fund: to be military services to procure Air Force requirements in conjunction with their own or with those of another service. Fresupport these requests remain unobligated until notification of contract award is received from the other military service. Fresupport these requests remain unobligated until notification of contract award is received from the other military service. quently, contractual arrangements will have been completed and the obligation incurred but notification from the other service is not received in time for recording in Air Force records prior to or at the end of a fiscal year.
- a. Specification Definitions (\$154.8 million) Unobligated funds result when specifications for newly introduced items cannot be definitized in time to permit contract negotiation prior to or at the end of the fiscal year.
- b. Price Redeterminations (5111.4 million) Prices are redetermined at intervals throughout the life of a contract. Final obligation for contracts must await negotiations on agreed target-ceiling formulae. In most large contracts, the rewards and publigation for contracts must await negotiations on agreed target-ceiling formulae. In most large contracts the end of the and penalties of multiple incentives (cost, performance and schedule) cannot be determined and obligated prior to the end of the fiscal pear. Funds are reserved for these purposes when upward adjustments seem likely; however, obligation does not occur until a formal redetermination has been agreed upon and the contract amended. Unobligated funds at year end result.
 - c. Definitization of Contracts (\$158.8 million) Procurements of complex systems and large material orders may occa-sionslly be initiated under letter contracts. The letter contract generates a partial obligation of the total program value with the balance remaining committed but unobligated pending definitization and negotiation of the detailed contract terms. These actions can carry over the end of a fiscal year and result in unobligated funds.

- This policy, enunciated in DoD Directive 7200.4 (October 30, 1969) provides that adequate appropri-3. Full Funding Policy - This policy, enunciated in DoD Directive 7200.4 (October 30, 1969) provides that adequate appropriations and Funds must be available in a given fiscal year for obligation, committed or set aside in a reserve a count in an aggre-Unobligated balances at the end of a fiscal year are a consequence of this policy and accrue in the following categories: gate amount sufficient to complete the procurement of a specified number of end items and advance procurement for approved programs.
- Delayed/Revised Program Release (\$268.3 million) Adjustments in quantities or specifications of other equipment to meet changing situations or to exploit engineering improvements generally require prior approval of reprogramming requests which can delay program release and direction until well into the fiscal year, thus delaying the obligation of funds by the end of the fiscal year. Also, approved and funded programs are sometimes delayed/undirected beyond 30 September pending decision on an aspect of the program that has arisen requiring resolution before proceeding.
- definitive requirements known in advance and they cannot be obligated until the change is authorized and directed. These changes Engineering Changes (\$164.7 million) - Based on prior experience with systems of like nature and complexities, provision is made in procurement programs, as a percentage of the estimated cost of the item, to cover engineering improvements and design changes which will occur as a result of manufacturing experience or Air Force requirements. Engineering changes are not occur throughout the life of the production contract and result in unobligated balances.